Incident ID	NVF1703338419
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

- [x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- [x] Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- [x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- [x] Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jim Foster Title: Consultant

Signature: Date: 1/25/2023

email: jim@teamtimberwolf Telephone: 979-324-2139

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 03/24/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

TIMBERWOLF ENVIRONMENTAL

1115 Welsh Ave, Suite B
College Station, Texas 77840
979.485.9094
teamtimberwolf.com

January 24, 2023

Mr. Nelson Velez
Environmental Specialist – Advanced
New Mexico Oil Conservation Division – District 3
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Closure Report
San Juan 27-5 No. 69
Hilcorp Energy Company
Rio Arriba County, New Mexico
Incident ID No.: NVF1703333740

Dear Mr. Velez:

At the request of Hilcorp Energy Company (Hilcorp), Timberwolf Environmental, LLC (Timberwolf) presents this status report to document remediation activities conducted at the San Juan 27-5 No. 69 (Site) and to present future action to bring the Site into regulatory compliance. The Site is located approximately 38.8 miles east-southeast of Bloomfield, in Rio Arriba County, New Mexico (Figure 1).

The Site is situated on Federal land (managed by the Bureau of Land Management (BLM)) and is situated south of Santos Peak (Figures 2 and 3). The Site is grandfathered from the New Spill Rule (i.e., NMAC 19.15.29).

Site Background

A release from the Site occurred on 05/05/14; ConocoPhillips (COP) was the operator at the time of the release. GHD conducted a Site Characterization in 2015 on COP's behalf and identified petroleum hydrocarbon impacted soil at the tank battery and glycol dehydrator.

2018 Corrective Actions and Supplemental Investigation

Hilcorp acquired the Site in 2017 and conducted a large-scale soil excavation and disposal in 2018. This corrective action was conducted to remediate previously identified impacted soil at the tank battery and glycol dehydrator. Approximately 13,612 cubic yards (yds^3) of soil was excavated soil was transported to a commercial disposal.

Confirmation soil sampling revealed that all base and sidewall excavation samples were below Site-specific criteria except for sidewall samples adjacent to the lease road along the southwest portion of the excavation. Samples collected from the southwest sidewall exceeded New Mexico Oil Conversation Division (NMOCD) criteria for total BTEX (benzene, toluene, ethylbenzene, and xylenes) and/or total petroleum hydrocarbons (TPH). A high-density polyethylene (HDPE) liner was placed on the excavation sidewall adjacent to the road to prevent unexcavated impacted soil from leaching into the clean backfilled material. The excavation was backfilled in 2019 with clean fill material.

In 2019, supplemental soil investigations identified impacted soil that exceeded Site-specific closure criteria extending to the southwest from the 2018 excavation and extending beneath the lease road and towards San Juan 27-5 No. 76. The 2018 corrective action as well as the supplemental assessment activities were documented in Timberwolf's report entitled: *Project Status Report – Site Characterization, Remedial Actions, and Proposed Further Actions,* dated 03/06/2019.

2022 Corrective Actions

In April 2022, Timberwolf submitted a corrective action work plan to the NMOCD entitled: *Supplemental Investigation and Work Plan*, dated 04/25/22. The purpose of the work plan was to bring identified impacted soil located southwest of the 2018 excavation into regulatory compliance. The impacted area measured approximately 95 feet (ft) by 50 ft, with a footprint of approximately 4,200 square feet (ft^2). On 04/29/22, the NMOCD approved the corrective action plan in Timberwolf's report with no conditions of approval.

The work plan was designed to remediate impacted soil at the Site using a combination of commercial disposal and in-situ techniques. A Site Overview map for corrective action activities is provided in Figure 4. The corrective action plan included the following key elements:

- Construct a detour road to maintain traffic flow
- Build a northern entrance to the San Juan 27-5 No. 69 well pad to serve as a construction entrance to facilitate construction traffic
- Excavate and stockpile unimpacted overburden soil on the San Juan 27-5 No. 69 well pad
- Excavate, transport, and dispose of leachable soil at a permitted commercial disposal facility
- Treat impacted soil (non-leachable) in place using in-situ techniques:
    - Incorporate soil amendments (i.e., surfactant and agricultural fertilizers)
    - Mix impacted soil and amendments 3 to 5 times to promote rapid biodegradation
- Collect and analyze confirmation samples from excavation sidewalls, excavation base, and stockpiled overburden soil. All confirmation samples will be analyzed for BTEX and TPH and will be collected in accordance with the sample rates specified below:
    - One composite sample per 100 yds^3 for stockpiled overburden soil
    - One composite sample per 400 ft^2 for excavation sidewalls and base
- Conduct additional excavation activities, as required, to remove and treat soil from sidewall and/or base if confirmation samples indicated an exceedance of closure criteria

- Conduct a second mixing of treated soil at 7 to 10 days post initial treatment
- Two weeks post second mixing event, collect and analyze confirmation samples for analysis of BTEX and TPH. Samples will be collected in accordance with the following sample rates:
    - One composite sample per 50 yds^3 for treated soil
    - Resample sidewall or base area that required additional excavation
- After all confirmation samples reveal that all samples from excavation base, excavation sidewalls, stockpiled overburden, and treated soil meets closure criteria and NMOCD approval to backfill has been obtained, the excavation will be backfilled. Material used to backfill the exaction will include treated soil, overburden soil, and clean fill.
- Remove detour and construction entrance roads and rebuild main road
- Reclaim Road Detour and Excavation areas by incorporating topsoil and seeding with BLM-approved seed mix.

Prior to initiating this scope of work, Hilcorp received approval from the NMOCD as well as the BLM. Additionally, a one-call was placed to clear all utilities prior to initiating work.

Prior Reports and Assessments

Prior assessment reports, corrective action reports, and status reports pertaining to the site are listed below:

- *Site Assessment Report and Proposed Remedial Action Plan,* prepared by GHD on behalf of COP, dated 09/15/15
- *Site Characterization and Remedial Action Plan,* prepared by Timberwolf, dated 09/18/18
- *Project Status Report – Site Characterization, Remedial Actions, and Proposed Further Actions*, prepared by Timberwolf, dated 03/06/19
- *Supplemental Investigation and Work Plan,* prepared by Timberwolf, dated 04/25/22
- *Status Report,* prepared by Timberwolf, dated 08/03/22

Regulatory Closure Criteria

The Site release occurred in 2014, and therefore, has been grandfathered from the *New Spill Rule.* The Site is subject to the regulatory criteria presented below.

The NMOCD established remedial action levels for soil impacted by oilfield products or wastes, which are documented in the *Guidelines for Remediation of Leaks and Releases*. The closure criteria utilize a ranking system that scores the potential to contaminate based on a site's distance to water resources. The ranking system is summarized in Table 1 below.

Table 1. NMOCD Ranking System

Category	Distance to Resource (Feet)	Score
Depth to groundwater	< 50	20
	50 to 99	10
	> 100	0
Water wellhead protection	< 200	20
	> 200	0
Surface water protection	< 200	20
	200 to 1,000	10
	> 1,000	0

NMOCD – New Mexico Oil Conservation Division

Sites receive a score from each category. The three scores are summed to reach a total ranking score that corresponds to site-specific remedial action levels.

Based on prior drilling activities and public data available in this area of the Site, the upper groundwater-bearing unit is expected to be greater than 100 ft below ground surface (bgs), which results in a score of 0. No water wellheads are located within 200 ft of the Site, which results in a score of 0. No perennial surface water bodies were identified within 1,000 ft of the Site; however, an intermittent stream is situated 160 ft northwest of the Site, which results in a score of 10. Therefore, the total ranking score at the Site is 10.

Based on the NMOCD criteria, the site-specific remedial action levels are presented in Table 2.

Table 2. NMOCD Remediation Action Levels by Total Ranking Score

Constituent	Total Ranking Score		
	> 19	**10-19**	**0-9**
	Corresponding Remediation Action Level (mg/kg)		
Benzene	10	**10**	10
Total BTEX	50	**50**	50
TPH	100	**1,000***	5,000

BTEX – benzene, toluene, ethylbenzene, and xylenes
mg/kg – milligrams per kilogram
NMOCD – New Mexico Oil and Conservation Division
TPH – total petroleum hydrocarbons
Bold – scores utilized for the Site

The regulatory soil closure criteria ("closure criteria" or "remedial targets") for the Site is as follows:

- Benzene < 10 milligrams per kilogram (mg/kg)
- Total BTEX < 50 mg/kg
- TPH < 1,080 mg/kg*

*Note: Mr. Nelson Velez of the NMOCD Aztec District 3 Office issued a variance for TPH concentration of 1,080 mg/kg on 12/21/22 via email (attached).

A copy of the NMOCD response with the conditions of approval is attached.

2022 Corrective Actions

On 05/16/22, Hilcorp contractors constructed the detour road and construction entrance. The temporary roads were approximately 18 ft wide each, with drainage ditches and silt fencing installed on either side. Excavation of unimpacted overburden soil began after temporary roads were completed. Approximately 1,150 yds^3 of overburden soil was stockpiled at the north end of the Site as shown in the attached Figure 4.

Impacted soil with the potential to leach (i.e., leachable soil) into underlying soil was identified and encountered beneath the road, south-southeast of the well. Leachable soil was excavated and transported to EnviroTech Landfarm (EnviroTech) of Farmington, New Mexico for commercial disposal as non-hazardous oilfield waste. Approximately 700 yds^3 of leachable soil was disposed at EnviroTech between 05/18/22 and 05/20/22. Waste manifests are documented in the attached Bills of Lading; waste disposal is summarized in Table 3 below.

Table 3. Waste Manifest

Manifest No.:	Date	No. of Loads	yds^3/load	Transporter
72958	05/18/22	10	20	CF&M
72964	05/18/22	2	20	ACE
72973	05/19/22	10	20	CF&M
72975	05/19/22	5	20	ACE
72987	05/19/22	2	20	CF&M
72997	05/20/22	2	20	ACE
73000	05/20/22	4	20	CF&M

yds^3 – cubic yards
CF&M – CF&M Oil Field Service, Inc.
ACE – Ace-Development, Inc.

The remainder of the impacted soil was treated in-situ using surfactants and agricultural fertilizer (i.e., soil amendments). Initial treatment included mixing the soil and amendments six (6) times using an excavator to: 1) incorporate amendments, 2) promote volatilization of the most volatile hydrocarbon fraction (i.e., gasoline range organics (GRO)), and 3) aerate the soil to promote biodegradation. Approximately 1,100 yds^3 of soil was treated in-situ. The final size of the excavation measured approximately 5,100 ft^2, with an average depth of 12 ft bgs.

Orange safety fencing was erected surrounding the excavation and clean soil was used as a barricade to prevent road traffic from entering the excavation. Corrective action is documented in the attached photographic log.

Confirmation Sampling

Confirmation samples were collected to ensure that: 1) all Site soil exceeding the site-specific closure criteria was either disposed or treated and 2) to ensure that treated soil met the Site closure criteria. Each confirmation sample was a composite consisting of three (3) or more sample points. Sample points were collected using a hand auger or spade. Sample points used to form a composite sample were placed into a sealable plastic bag and homogenized prior to transferring into laboratory-provided containers.

A summary of confirmation sample types, nomenclature, number of sample points per composite, total number of confirmation samples by type, and composite limits are provided in Table 4 below.

Table 4. Summary of Confirmation Samples

Confirmation Sample Type	Nomenclature	Number of Sample Points	Number of Samples	Limitation
Excavation sidewall	SW	5	8*	400 ft^2
Excavation base (bottom hole)	BH	4	12	400 ft^2
Overburden soil	OB	3	12	100 yds^3
Treated soil	TS	6	22	50 yds^3

ft^2 – square feet
yds^3 – cubic yards
*Initial count

Composite samples were placed in laboratory-provided sample containers, stored on ice, and transported under proper chain-of-custody protocol to Hall Environmental & Analytical Laboratory (HEAL) of Albuquerque, New Mexico for chemical analysis. Samples were analyzed for the following constituents:

- BTEX by SW-846 EPA Method 8260
- GRO, DRO, and MRO (extended range) by SW-846 EPS Method 8015M

The analytical results of confirmation samples collected from the excavation sidewall base are summarized in Tables 5 and 6 below. Constituents that exceeded site-specific closure criteria are denoted in yellow highlights; composite sample locations are shown in Figure 5 and 6.

Table 5. Analytical Results – Sidewall Confirmation Samples

Sample ID	Sample Date	Volatile Organic Compounds (mg/kg)		GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)
		Benzene	Total BTEX				
SW1	05/19/22	< 0.025	< 0.449	22	91	< 49	113
SW2	05/19/22	< 0.023	< 0.729	45	390	< 45	435
SW3	05/19/22	< 0.024	< 0.422	24	390	< 45	414
SW4	05/19/22	< 0.023	< 0.255	5.2	200	< 50	205.2
SW5	05/19/22	< 0.023	< 0.208	< 4.6	53	79	132
SW6	05/19/22	< 0.024	< 0.217	< 4.8	500	970	1,470
SW6A	06/23/22	< 0.025	< 0.222	< 4.9	1,200	1,100	2,300
SW6A+	08/11/22	< 0.019	< 0.077	< 3.9	180	280	463.9
SW6B	06/23/22	< 0.024	< 0.216	< 4.8	< 14	< 48	< 48
SW6C	08/11/22	< 0.017	< 0.067	< 3.3	250	310	563.3
SW7	05/19/22	< 0.024	< 0.22	< 4.9	10	< 46	10
SW8	05/19/22	< 0.024	< 0.216	< 4.8	17	< 44	17
Closure Criteria		**10**	**50**	**--**	**--**	**--**	**1,080***

TPH – total petroleum hydrocarbons (TPH = GRO+DRO+MRO)
BTEX – benzene, toluene, ethylbenzene, and xylenes
mg/kg – milligrams per kilogram
N/A – constituent not analyzed
– exceeds regulatory criteria
GRO – gasoline range organics
DRO – diesel range organics
MRO – motor oil range organics
-- – no applicable regulatory criteria
* NMOCD TPH closure criteria variance

The original SW6 samples were elevated for TPH. The excavation was widened at SW6 and additional sidewall samples were collected (i.e., SW6A and SW6B). The confirmation sample SW6A was also elevated for TPH, necessitating further expansion and additional sidewall samples (i.e., SW6A+ and SW6C).

Due to the expansion of the excavation at SW6, an additional excavation base sample was collected (i.e., BH13), analytical results are provided below.

Table 6. Analytical Results – Bottom Hole Confirmation Samples

Sample ID	Sample Date	Volatile Organic Compounds (mg/kg)		GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)
		Benzene	Total BTEX				
BH1	05/19/22	< 0.024	< 0.215	< 4.8	240	< 47	240
BH2	05/19/22	< 0.025	< 0.221	9.8	100	< 48	109.8
BH3	05/19/22	< 0.024	< 0.217	< 4.8	59	< 49	59
BH4	05/19/22	< 0.12	< 1.08	< 24	110	< 49	110
BH5	05/19/22	< 0.025	< 0.222	< 4.9	17	< 43	17
BH6	05/20/22	< 0.024	< 0.216	< 4.8	< 9.3	< 46	< 46
BH7	05/20/22	< 0.12	< 1.12	< 25	63	< 49	63
BH8	05/20/22	< 0.12	< 1.17	60	680	< 50	740
BH9	05/20/22	< 0.023	< 0.208	11	24	< 48	35
BH10	05/20/22	< 0.023	< 0.211	9.1	110	< 44	119.1
BH11	05/20/22	< 0.12	< 1.05	43	400	< 45	443
BH12	05/20/22	< 0.12	< 22.24	460	1,300	< 460	1,760
BH12A	06/23/22	< 0.024	< 0.217	6.7	110	< 49	116.7
BH12B	06/23/22	< 0.024	< 0.212	< 4.7	14	< 47	14
BH13	08/11/22	< 0.017	< 0.069	< 3.5	79	140	222.5
Closure Criteria		**10**	**50**	**--**	**--**	**--**	**1,080***

TPH – total petroleum hydrocarbons (TPH = GRO+DRO+MRO)
BTEX – benzene, toluene, ethylbenzene, and xylenes
mg/kg – milligrams per kilogram
N/A – constituent not analyzed
– exceeds regulatory criteria

GRO – gasoline range organics
DRO – diesel range organics
MRO – motor oil range organics
-- – no applicable regulatory criteria
* NMOCD TPH closure criteria variance

The original BH12 samples were elevated for TPH. The excavation was deepened by approximately one (1) foot at BH12 and additional excavation base confirmation samples were collected (i.e., BH12A and BH12B). Analytical results of those samples revealed vertical delineation to the site-specific closure criteria.

The additional excavated soil at SW6 was treated by mixing it into the in-situ treatment soil (i.e., TS23). Also, additional volatilization and aeration treatments were performed on 06/07/22, 06/08/22, 08/11/22, and 11/11/22. During these treatments, approximately 150 barrels of fresh water was added to the treated soil to facilitate microbial activity in June and 100 pounds of fertilizer was incorporated into TS12 in November.

On 06/23/22, Timberwolf collected confirmation samples of the overburden soil and treated soil. As requested by NMOCD staff who was not available to witness confirmation sampling, composite samples for sidewall confirmation samples were limited to 200 ft^2 as specified under NMAC 19.15.29. Constituents that exceeded site-specific closure criteria are denoted in yellow highlights; composite sample locations of overburden and treated soil are shown in Figures 7 and 8.

Table 7. Analytical Results – Overburden Soil Confirmation Samples – 06/23/22

Sample ID	Volatile Organic Compounds (mg/kg)		GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)
	Benzene	Total BTEX				
OB1	< 0.025	< 0.221	< 4.9	16	< 47	16
OB2	< 0.025	< 0.225	< 5.0	< 14	< 47	< 47
OB3	< 0.024	< 0.219	< 4.9	23	< 47	23
OB4	< 0.024	< 0.22	< 4.9	15	< 48	15
OB5	< 0.024	< 0.213	< 4.7	35	< 49	35
OB6	< 0.024	< 0.213	< 4.7	33	< 49	33
OB7	< 0.023	< 0.211	< 4.7	< 15	< 49	< 49
OB8	< 0.025	< 0.222	< 4.9	98	180	278
OB9	< 0.024	< 0.219	< 4.9	90	140	230
OB10	< 0.024	< 0.219	< 4.9	91	140	231
OB11	< 0.024	< 0.217	< 4.8	20	< 50	20
OB12	< 0.024	< 0.22	< 4.9	18	< 46	18
Closure Criteria	**10**	**50**	**--**	**--**	**--**	**1,080***

TPH – total petroleum hydrocarbons (TPH = GRO+DRO+MRO)
BTEX – benzene, toluene, ethylbenzene, and xylenes
mg/kg – milligrams per kilogram
N/A – constituent not analyzed
– exceeds regulatory criteria

GRO – gasoline range organics
DRO – diesel range organics
MRO – motor oil range organics
-- – no applicable regulatory criteria
* NMOCD TPH closure criteria variance

Table 8. Analytical Results – Treated Soil Confirmation Samples

Sample ID	Sample Date	Volatile Organic Compounds (mg/kg)		GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)
		Benzene	Total BTEX				
TS1	06/23/22	< 0.12	< 1.11	< 25	360	110	470
TS2	06/23/22	< 0.12	< 1.12	< 25	330	83	413
TS3	06/23/22	< 0.12	< 1.05	44	360	50	454
TS4	06/23/22	< 0.12	< 1.08	< 24	340	60	400
TS5	06/23/22	< 0.12	< 1.08	< 24	310	82	392
TS6	06/23/22	< 0.12	< 1.08	29	400	< 48	429
TS7	06/23/22	< 0.12	< 1.08	38	440	< 49	478
TS8	06/23/22	< 0.12	< 1.08	37	320	74	431
TS9	06/23/22	< 0.12	< 1.07	37	320	72	429
TS10	06/23/22	< 0.12	< 1.07	44	440	97	581
TS11	06/23/22	< 0.12	< 1.04	36	420	< 49	456

continued

Table 8. Analytical Results – Treated Soil Confirmation Samples *(continued)*

Sample ID	Sample Date	Volatile Organic Compounds (mg/kg)		GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)
TS12	06/23/22	< 0.12	< 1.08	26	900	580	1,506
TS12	10/11/22	< 0.024	< 0.098	< 4.9	680	840	1,520
TS12	12/06/22	< 0.024	< 0.097	< 4.9	580	450	1,030
TS13	06/23/22	< 0.12	< 1.09	44	520	< 48	564
TS14	06/23/22	< 0.12	< 1.07	< 24	210	53	263
TS15	06/23/22	< 0.12	< 1.07	37	370	< 48	407
TS16	06/23/22	< 0.12	< 1.11	31	370	84	485
TS17	06/23/22	< 0.12	< 1.08	29	340	97	466
TS18	06/23/22	< 0.12	< 1.09	< 24	270	60	330
TS19	06/23/22	< 0.024	< 0.22	16	270	< 48	286
TS20	06/23/22	< 0.024	< 0.217	28	390	< 49	418
TS21	06/23/22	< 0.023	< 0.208	31	320	< 48	351
TS22	06/23/22	< 0.025	< 0.224	64	510	< 49	574
TS23	10/11/22	< 0.024	< 0.097	< 4.8	< 14	< 45	< 45
Closure Criteria		**10**	**50**	**--**	**--**	**--**	**1,080***

TPH – total petroleum hydrocarbons (TPH = GRO+DRO+MRO)
BTEX – benzene, toluene, ethylbenzene, and xylenes
mg/kg – milligrams per kilogram
N/A – constituent not analyzed
– exceeds regulatory criteria

GRO – gasoline range organics
DRO – diesel range organics
MRO – motor oil range organics
-- – no applicable regulatory criteria
* NMOCD TPH closure criteria variance

The original sample for TS12 was elevated for TPH. On 08/11/22, the soil for TS12 was dug out and windrowed across the other treated soil. Additional aeration and fertilizer treatments were conducted on 11/11/22. Sample locations for TS12 composite sample for the 10/11/22 and 12/06/22 sampling events are provided in Figure 9.

Conclusions

Work performed during the 2022 corrective action yielded the following results:

- All overburden confirmation samples were below Site-specific closure criteria
- After additional excavation at BH12, all confirmation excavation base samples were below closure criteria
- After a horizontal expansion of the excavation at SW6, all confirmation sidewall samples were below closure criteria
- Approximately 700 yds^3 of soil with leachable hydrocarbon was excavated and transported to EnviroTech landfarm for commercial disposal as non-hazardous oilfield waste
- Approximately 1,150 yds^3 of impacted soil (non-leachable) was treated in-situ:
    - Post-treatment sampling and testing reveled that composite samples of treated soil (TS) were below closure criteria in all test areas (i.e., TS1 through TS23)
    - Each TS area represents approximately 50 yds^3
    - The in-situ treatment successfully remediated all non-leachable soil.

Further Action

Upon NMOCD approval, Hilcorp will backfill with approximately 700 yds^3 of clean fill material and overburden soil to close the excavation and return the Site to natural grade. Soil underlying the road will be compacted with a vibratory roller and covered with a suitable wear-coarse (i.e., gravel, road base material, etc.). Road barricades will be removed.

Hilcorp will reclaim the surface by planting a BLM-approved seed mix over the former excavation, temporary road, and beneath the overburden stockpile, as well as disturbed areas adjacent to these areas. Erosion control measures will be implemented as needed.

Hilcorp will provide notice to the NMOCD upon completion of Site reclamation activities.

If you have any questions regarding this report or need further assistance, do not hesitate to contact us.

Sincerely,
Timberwolf Environmental, LLC

Trey Charanza
Senior Project Manager

Jim Foster
President

Attachments: Figures
Photographic Log
NMOCD Correspondence
Laboratory Reports and Chain-of-Custody Documents
Bills of Lading – EnviroTech

cc: Samantha Grabert, Hilcorp

Figures

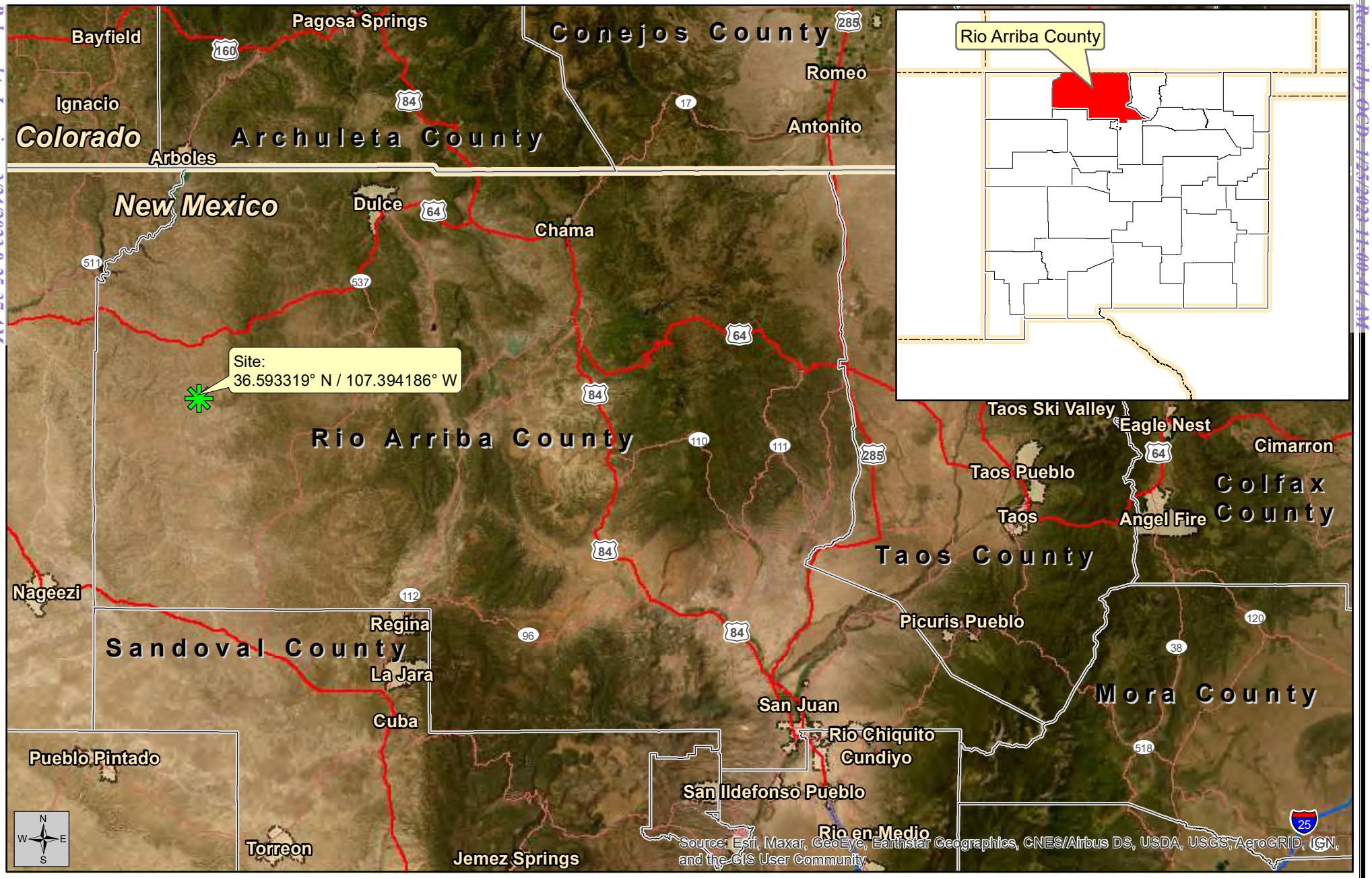

Figure 1 **Site Location Map**	**Closure Report**	**August 3, 2022**
TIMBERWOLF ENVIRONMENTAL	1:1,250,000 0 20 40 60 80 100 120 Miles **San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)** **Hilcorp Energy Company** **Rio Arriba County, New Mexico**	Site
Created By: Kevin Cole TE Project No.: HEC-180034	Datum: NAD83 Imagery Source: ESRI Vector Source: ESRI and TE	

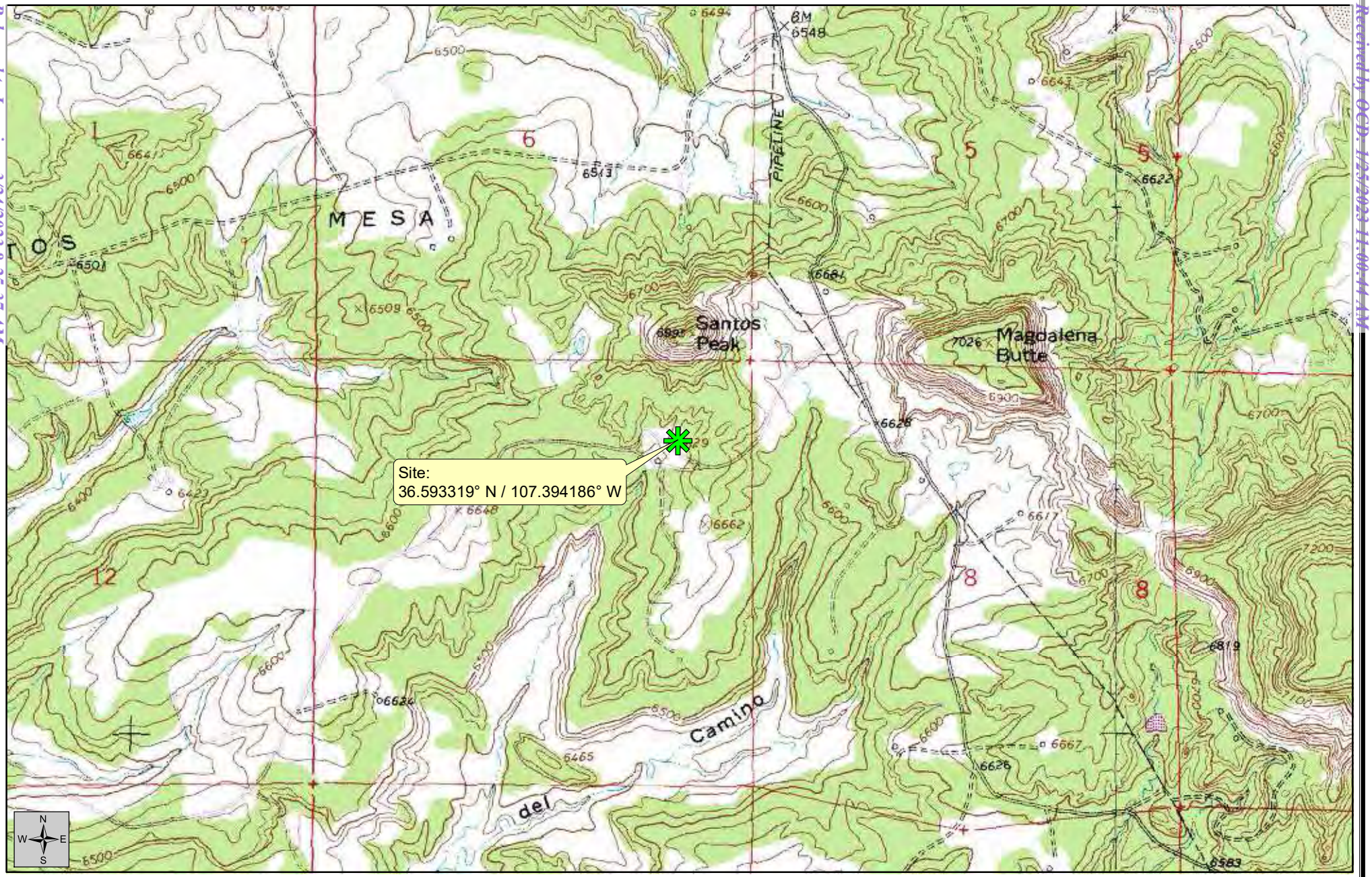

Figure 2 **Topographic Map**	**Closure Report**	**August 3, 2022**
TIMBERWOLF ENVIRONMENTAL	1:24,000 0 0.5 1 1.5 2 Miles **San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)** **Hilcorp Energy Company** **Rio Arriba County, New Mexico**	Site
Created By: Kevin Cole TE Project No.: HEC-180034	Datum: NAD83 Imagery Source: USGS Quads: Santos Peak and Vigas Canyon Vector Source: TE	

Figure 3
Aerial Map

Closure Report

August 3, 2022

1:8,000

0 1,000 2,000 3,000 4,000 Feet

TIMBERWOLF ENVIRONMENTAL

San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)
Hilcorp Energy Company
Rio Arriba County, New Mexico

Created By:
Kevin Cole
TE Project No.: HEC-180034

Datum: NAD83
Imagery Source: ESRI
Vector Source: TE

Site

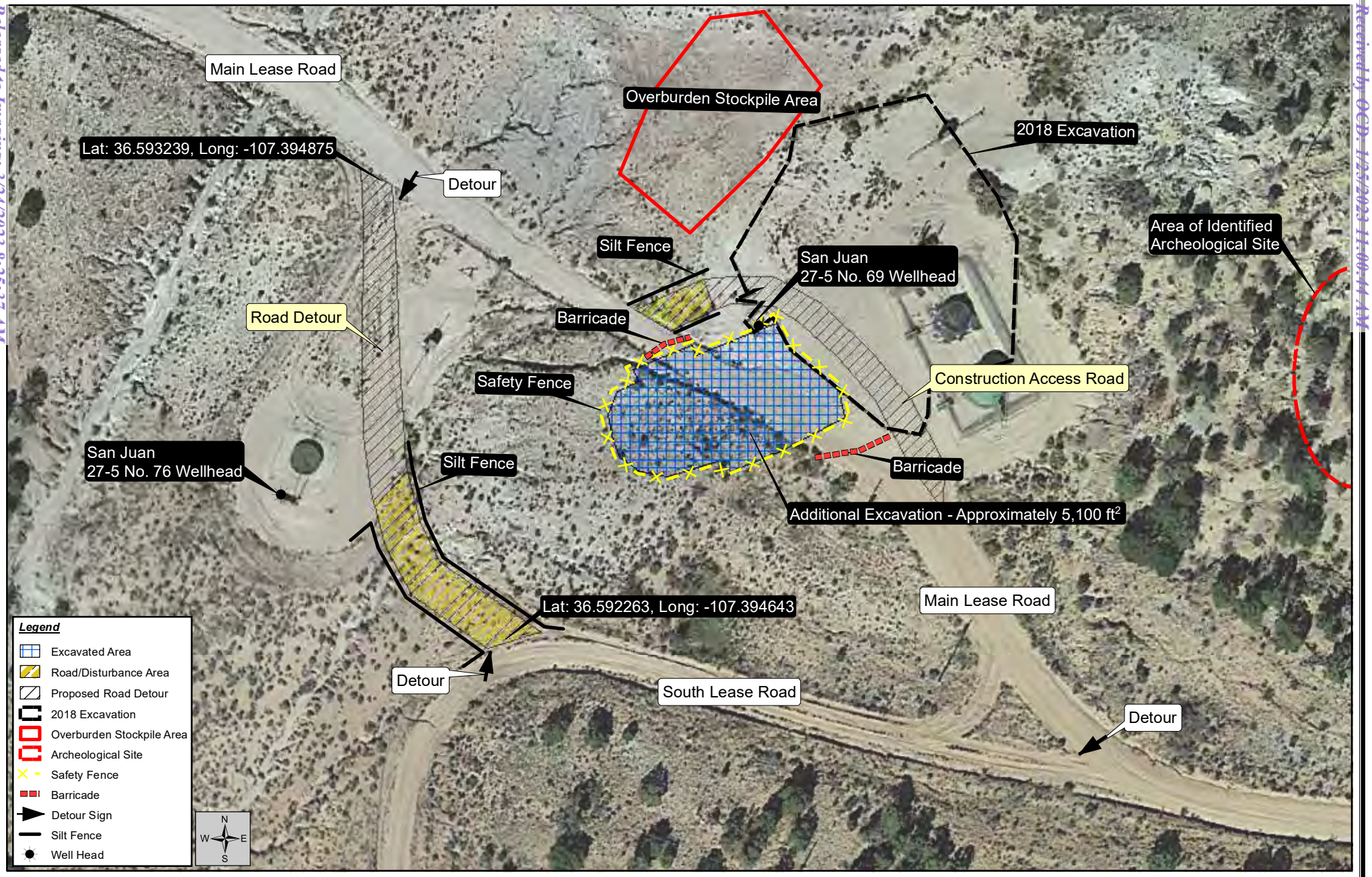

Figure 4 **Site Overview**	**Closure Report**	**August 3, 2022**
TIMBERWOLF ENVIRONMENTAL Created By: Kevin Cole TE Project No.: HEC-180034	1:750 0 100 200 300 Feet **San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)** **Hilcorp Energy Company** **Rio Arriba County, New Mexico**	Datum: NAD83 Imagery Source: GoogleEarth Vector Source: TE

Figure 5
Confirmation Samples - Excavation Sidewalls

Closure Report

Sample Dates:
05/19/22 and 08/11/22

TIMBERWOLF ENVIRONMENTAL

1:300

0 50 100 150 Feet

Created By:
Brett Berno
August 15, 2022
TE Project No.: HEC-180034

San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)
Hilcorp Energy Company
Rio Arriba County, New Mexico

Datum: NAD83
Imagery Source: GoogleEarth
Vector Source: TE

Well Head
Sidewall Samples
Previous Excavation
Additional Excavation

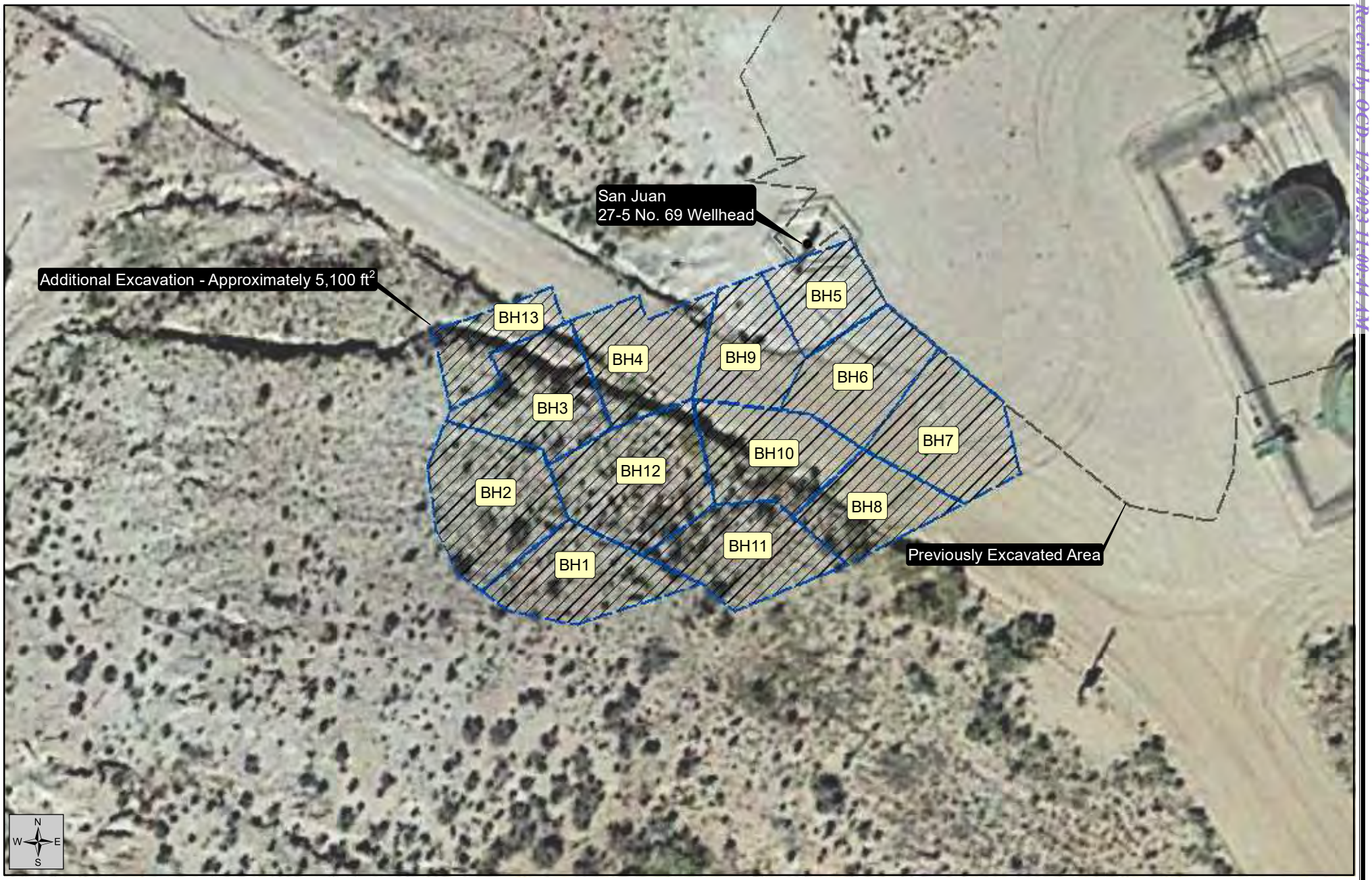

Figure 6
Confirmation Samples - Excavation Base

Closure Report

Sample Dates:
05/19/22 and 08/11/22

1:300

0 50 100 150 Feet

TIMBERWOLF ENVIRONMENTAL

Created By:
Brett Berno
August 16, 2022
TE Project No.: HEC-180034

San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)
Hilcorp Energy Company
Rio Arriba County, New Mexico

Datum: NAD83
Imagery Source: GoogleEarth
Vector Source: TE

Well Head
Previous Excavation
Additional Excavation
BH Sections

Figure 7
Confirmation Samples - Overburden Soil

Closure Report

Sample Date:
June 23, 2022

TIMBERWOLF ENVIRONMENTAL

1:300

0 50 100 150 Feet

Created By:
Kevin Cole
August 3, 2022
TE Project No.: HEC-180034

San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)
Hilcorp Energy Company
Rio Arriba County, New Mexico

Datum: NAD83
Imagery Source: GoogleEarth
Vector Source: TE

Well Head
Previous Excavation
Overburden Stockpile Area
Overburden Sections

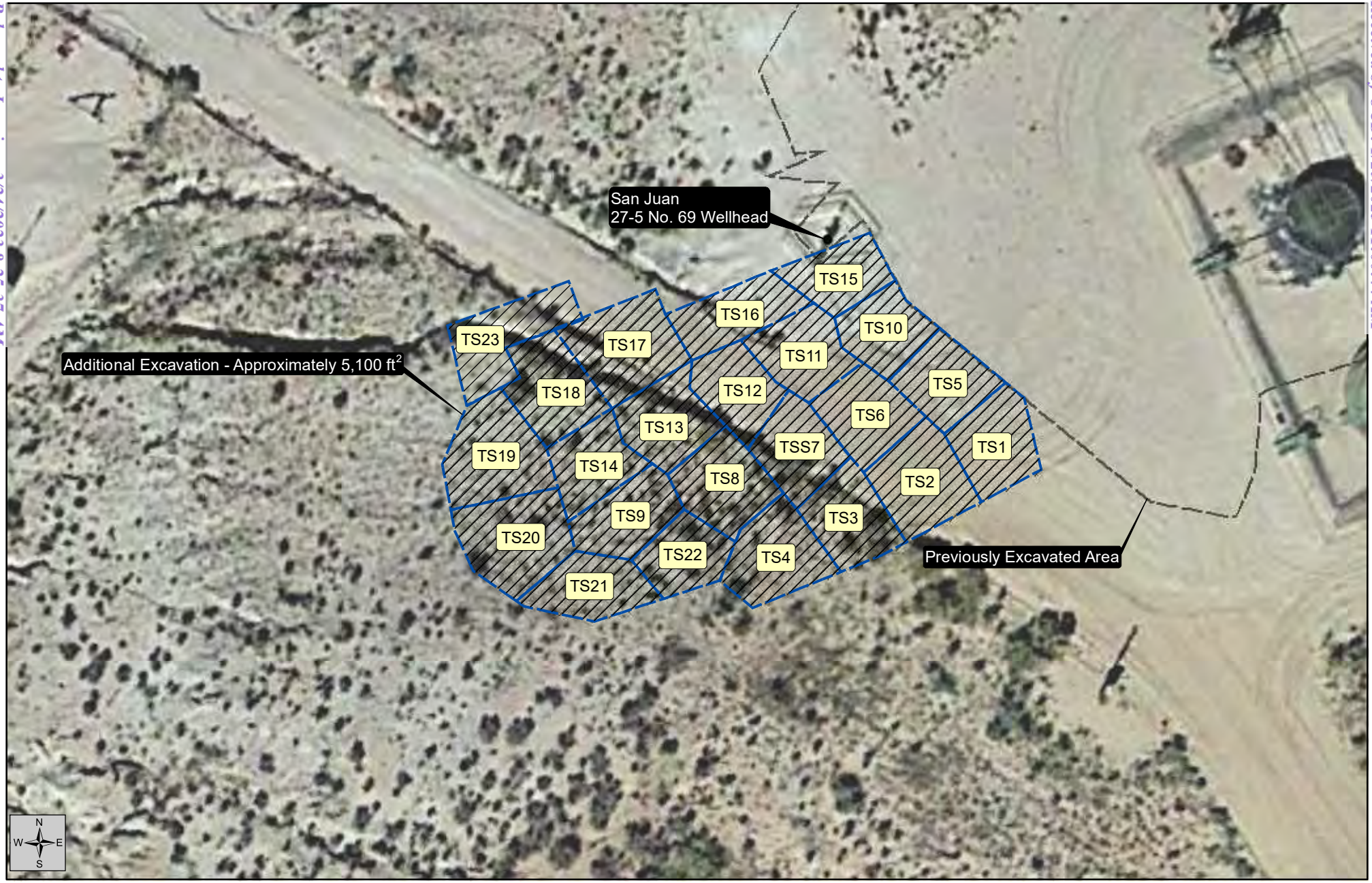

Figure 8
Confirmation Samples - Treated Soil

Closure Report

Sample Dates:
06/23/22 and 10/11/22

TIMBERWOLF ENVIRONMENTAL

1:300

0 50 100 150 Feet

Created By:
Kevin Cole
July 14, 2022
TE Project No.: HEC-180034

San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)
Hilcorp Energy Company
Rio Arriba County, New Mexico

Datum: NAD83
Imagery Source: GoogleEarth
Vector Source: TE

Well Head
Previous Excavation
Additional Excavation
TS Sections

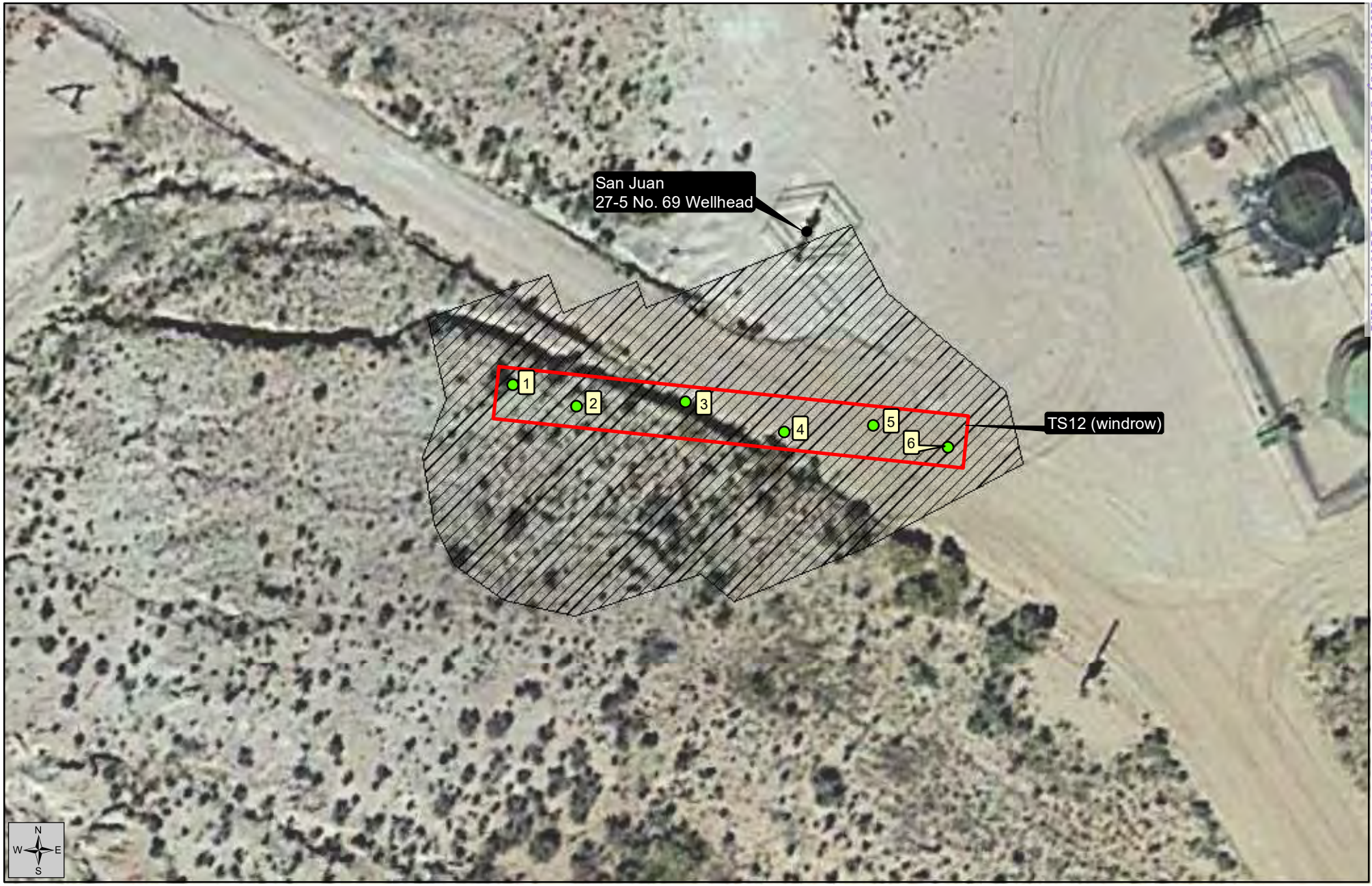

Figure 9
Excavation with TS12 Composite Points

Closure Report

Sample Dates:
10/11/22 and 12/06/22

1:300

0 50 100 150 Feet

San Juan 27-5 No. 69 (Incident ID No.: NVF1703333740)
Hilcorp Energy Company
Rio Arriba County, New Mexico

Created By:
Brett Berno
TE Project No.: HEC-180034

Datum: NAD83
Imagery Source: GoogleEarth
Vector Source: TE

- Well Head
- Soil Sample
- Excavation Outline
- TS12 (Windrow)

TIMBERWOLF ENVIRONMENTAL

Photographic Log

TIMBERWOLF ENVIRONMENTAL
1115 Welsh Ave., Suite B
College Station, TX 77840
979.324.2139
www.teamtimberwolf.com

PHOTOGRAPHIC LOG

Project No.:	HEC-180034	**Client:**	Hilcorp Energy Company
Project Name:	San Juan 27-5 No. 69	**Site Location:**	Rio Arriba County, New Mexico
Task Description:	Closure Report	**Date:**	May 17, 2022

Photo No.: 1

Direction: Southwest

Comments: Excavation from the wellhead.

Photo No.: 2

Direction: North

Comments: Stockpile overburen soil with Santos Peak in background.

TIMBERWOLF ENVIRONMENTAL

1115 Welsh Ave., Suite B
College Station, TX 77840
979.324.2139
www.teamtimberwolf.com

PHOTOGRAPHIC LOG

Project No.:	HEC-180034	**Client:**	Hilcorp Energy Company
Project Name:	San Juan 27-5 No. 69	**Site Location:**	Rio Arriba County, New Mexico
Task Description:	Closure Report	**Date:**	May 17, 2022

Photo No.: 3

Direction: Norhtwest

Comments: At temporary road detour. Arrow points to protected barricade for the San Juan 27-5 No.76.

Photo No.: 4

Direction: West

Comments: View of excavation.

TIMBERWOLF ENVIRONMENTAL

1115 Welsh Ave., Suite B
College Station, TX 77840
979.324.2139
www.teamtimberwolf.com

PHOTOGRAPHIC LOG

Project No.:	HEC-180034	**Client:**	Hilcorp Energy Company
Project Name:	San Juan 27-5 No. 69	**Site Location:**	Rio Arriba County, New Mexico
Task Description:	Closure Report	**Date:**	August 11, 2022

Photo No.: 5

Direction: Northeast

Comments: View of backhoe digging out TS12 to form windrow.

Photo No.: 6

Direction: Southeast

Comments: View of final extent of excavation.

Note: safety fence; orange paint on marks TS12 which was excavated and windrow.

TIMBERWOLF ENVIRONMENTAL

1115 Welsh Ave., Suite B
College Station, TX 77840
979.324.2139
www.teamtimberwolf.com

PHOTOGRAPHIC LOG

Project No.:	HEC-180034	**Client:**	Hilcorp Energy Company
Project Name:	San Juan 27-5 No. 69	**Site Location:**	Rio Arriba County, New Mexico
Task Description:	Closure Report	**Date:**	November 11, 2022

Photo No.: 7

Direction: Southeast

Comments: View of windrowed TS12.

Note: safety fence

Photo No.: 8

Direction: Southwest

Comments: View of windrowed TS12.

Note: safety fence and earthened barricade.

NMOCD Correspondence

From: Lindsay Dumas <ldumas@hilcorp.com>
Sent: Monday, September 17, 2018 10:35 AM
To: Jim Foster <jim@teamtimberwolf.com>
Subject: FW: [EXTERNAL EMAIL]San Juan 27-5 #69 (30-039-07139) Incident#nvf170333370

---------- Forwarded message ----------
From: "**Smith, Cory, EMNRD**" <Cory.Smith@state.nm.us>
Date: Thu, Jun 21, 2018 at 10:09 AM -0700
Subject: [EXTERNAL EMAIL]San Juan 27-5 #69 (30-039-07139) Incident#nvf170333370
To: "Clara Cardoza" <ccardoza@hilcorp.com>
Cc: "Fields, Vanessa, EMNRD" <Vanessa.Fields@state.nm.us>

Clara,

OCD has received a ConocoPhillips now HilCorp C-141 “Initial” on 3/10/2017 for the San Juan 27-5 #69. After Review the OCD has approved the Initial C-141 “Assessment report” with the following conditions of approval.

- OCD has denied HEC request for risk base closure.
- OCD agrees with HEC site assessment the site ranking is a 10 due to distance from significant water course. The Closure standards will be 1,000 mg/kg TPH, 50 mg/kg BTEX and 10 mg/kg Benzene.
- HEC must return to the site and initiate remediation no later than September 21, 2018 this time frame includes submittal of a work plan and associated approval if needed.
- HEC will schedule with OCD District III to witness any final soil confirmation sampling.

If you have any questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

Berenice Marquez

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, December 21, 2022 4:17 PM
To: Samantha Grabert
Cc: Jim Foster
Subject: RE: [EXTERNAL] NVF1703333740 – San Juan 27-5 #69 - Variance Request

Hi Samantha,

Per Table 1 of 19.15.29.12 NMAC, TPH (GRO+DRO) allowable concentration is 1,000 mg/Kg and total TPH (GRO+DRO+MRO) is 2,500 mg/Kg. The lab results indicate that Hilcorp has met those standards for TPH.
Given:
GRO < 50 mg/Kg
DRO = 580 mg/Kg
MRO = 450 mg/Kg

GRO+DRO < 630 mg/Kg
Total TPH < 1,080 mg/Kg.

Merry Christmas to you and yours, as well as to Kate and Mitch.

If you have any further questions, please contact me at your convenience.

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
http://www.emnrd.state.nm.us/OCD/

From: Samantha Grabert <Samantha.Grabert@hilcorp.com>
Sent: Wednesday, December 21, 2022 2:50 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim Foster <jim@teamtimberwolf.com>
Subject: [EXTERNAL] NVF1703333740 – San Juan 27-5 #69 - Variance Request

Good Afternoon Nelson,

Hilcorp respectfully requests for a variance for the TPH closure limit of the confirmation sample TS12 at the SJ 27-5 #69. The need for the variance is based on the TPH concentration of 1,030 mg/kg in TS12 (sample collected in 12/06/22). Laboratory analysis determined the GRO concentration was less than 50 mg/kg; DRO was 580 mg/kg; and MRO was 450 mg/kg. Previous testing in October 2022 revealed a TPH concentration of 1,520, mg/kg. Subsequent soil amendments and remediation efforts have reduced the TPH concentration to 1,030 mg/kg.

The depth to groundwater determination for the Site revealed that the groundwater was greater than 100 ft. below ground surface. The TPH criteria of 1,000 mg/kg was based on protection of surface water. Site closure will include spreading the soil from TS 12 over the top of the other treated soil (i.e., TS1 – TS11 and TS13 – TS23) at the base of the excavation. Unimpacted overburden soil which is stockpiled on Site will be used for final cover. This closure strategy with provide equal or better protection of the environment as all residual hydrocarbons will be at least 5 ft below ground surface and will mitigate the potential for migration to surface water. Additionally, the spreading of TS12 (with a TPH concentration of 1,030 mg/kg) across the excavation will minimize the petroleum hydrocarbon concentrations and decrease the potential for vertical migration.

Also, like we discussed yesterday, attached is a map, a summary of the lab results, & the actual analytical report for the referenced sample depicting this data. Let me know if you have any questions or need anything further from us for this request.

Thanks,

Samantha Grabert

Hilcorp

713-757-7116 (Office)
337-781-9630 (Mobile)

Laboratory Report and Chain-of-Custody Documents

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 02, 2022

Jim Foster

Timberwolf Environmental
1920 W Villa Maria Ste 205
Bryan, TX 77807
TEL: (979) 324-2139
FAX:

RE: SJ 27 5 69 OrderNo.: 2205984

Dear Jim Foster:

Hall Environmental Analysis Laboratory received 13 sample(s) on 5/21/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW1
Project: SJ 27 5 69
Collection Date: 5/19/2022 12:40:00 PM
Lab ID: 2205984-001 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	270	60		mg/Kg	20	5/26/2022 3:06:39 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	91	9.9		mg/Kg	1	5/26/2022 4:36:06 PM	67677
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 4:36:06 PM	67677
Surr: DNOP	91.7	51.1-141		%Rec	1	5/26/2022 4:36:06 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	22	4.9		mg/Kg	1	5/24/2022 10:19:00 AM	67629
Surr: BFB	263	37.7-212	S	%Rec	1	5/24/2022 10:19:00 AM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 10:19:00 AM	67629
Toluene	ND	0.049		mg/Kg	1	5/24/2022 10:19:00 AM	67629
Ethylbenzene	0.095	0.049		mg/Kg	1	5/24/2022 10:19:00 AM	67629
Xylenes, Total	0.28	0.098		mg/Kg	1	5/24/2022 10:19:00 AM	67629
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	5/24/2022 10:19:00 AM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW2
Project: SJ 27 5 69
Collection Date: 5/19/2022 12:45:00 PM
Lab ID: 2205984-002 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	100	60		mg/Kg	20	5/26/2022 3:43:42 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	390	9.1		mg/Kg	1	5/26/2022 5:08:36 PM	67677
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/26/2022 5:08:36 PM	67677
Surr: DNOP	96.6	51.1-141		%Rec	1	5/26/2022 5:08:36 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	45	4.6		mg/Kg	1	5/24/2022 11:38:00 AM	67629
Surr: BFB	276	37.7-212	S	%Rec	1	5/24/2022 11:38:00 AM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/24/2022 11:38:00 AM	67629
Toluene	ND	0.046		mg/Kg	1	5/24/2022 11:38:00 AM	67629
Ethylbenzene	0.19	0.046		mg/Kg	1	5/24/2022 11:38:00 AM	67629
Xylenes, Total	0.47	0.092		mg/Kg	1	5/24/2022 11:38:00 AM	67629
Surr: 4-Bromofluorobenzene	170	70-130	S	%Rec	1	5/24/2022 11:38:00 AM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW3
Project: SJ 27 5 69
Collection Date: 5/19/2022 12:50:00 PM
Lab ID: 2205984-003 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	130	60		mg/Kg	20	5/26/2022 4:20:45 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	390	9.0		mg/Kg	1	5/26/2022 5:19:24 PM	67677
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/26/2022 5:19:24 PM	67677
Surr: DNOP	119	51.1-141		%Rec	1	5/26/2022 5:19:24 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	24	4.9		mg/Kg	1	5/24/2022 11:58:00 AM	67629
Surr: BFB	213	37.7-212	S	%Rec	1	5/24/2022 11:58:00 AM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 11:58:00 AM	67629
Toluene	ND	0.049		mg/Kg	1	5/24/2022 11:58:00 AM	67629
Ethylbenzene	0.069	0.049		mg/Kg	1	5/24/2022 11:58:00 AM	67629
Xylenes, Total	0.28	0.098		mg/Kg	1	5/24/2022 11:58:00 AM	67629
Surr: 4-Bromofluorobenzene	137	70-130	S	%Rec	1	5/24/2022 11:58:00 AM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW4
Project: SJ 27 5 69
Collection Date: 5/19/2022 12:55:00 PM
Lab ID: 2205984-004 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	110	60		mg/Kg	20	5/26/2022 4:33:06 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	200	10		mg/Kg	1	5/26/2022 5:30:12 PM	67677
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/26/2022 5:30:12 PM	67677
Surr: DNOP	118	51.1-141		%Rec	1	5/26/2022 5:30:12 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	5.2	4.6		mg/Kg	1	5/24/2022 12:17:00 PM	67629
Surr: BFB	126	37.7-212		%Rec	1	5/24/2022 12:17:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/24/2022 12:17:00 PM	67629
Toluene	ND	0.046		mg/Kg	1	5/24/2022 12:17:00 PM	67629
Ethylbenzene	ND	0.046		mg/Kg	1	5/24/2022 12:17:00 PM	67629
Xylenes, Total	0.14	0.092		mg/Kg	1	5/24/2022 12:17:00 PM	67629
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	5/24/2022 12:17:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW5
Project: SJ 27 5 69
Collection Date: 5/19/2022 1:00:00 PM
Lab ID: 2205984-005 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/26/2022 1:13:08 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	53	9.7		mg/Kg	1	5/27/2022 7:27:02 AM	67677
Motor Oil Range Organics (MRO)	79	49		mg/Kg	1	5/27/2022 7:27:02 AM	67677
Surr: DNOP	102	51.1-141		%Rec	1	5/27/2022 7:27:02 AM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/24/2022 12:37:00 PM	67629
Surr: BFB	92.2	37.7-212		%Rec	1	5/24/2022 12:37:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/24/2022 12:37:00 PM	67629
Toluene	ND	0.046		mg/Kg	1	5/24/2022 12:37:00 PM	67629
Ethylbenzene	ND	0.046		mg/Kg	1	5/24/2022 12:37:00 PM	67629
Xylenes, Total	ND	0.093		mg/Kg	1	5/24/2022 12:37:00 PM	67629
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	5/24/2022 12:37:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW6
Project: SJ 27 5 69
Collection Date: 5/19/2022 1:05:00 PM
Lab ID: 2205984-006 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	220	60		mg/Kg	20	5/26/2022 1:25:32 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	500	95		mg/Kg	10	5/26/2022 4:25:14 PM	67677
Motor Oil Range Organics (MRO)	970	480		mg/Kg	10	5/26/2022 4:25:14 PM	67677
Surr: DNOP	0	51.1-141	S	%Rec	10	5/26/2022 4:25:14 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 12:57:00 PM	67629
Surr: BFB	93.2	37.7-212		%Rec	1	5/24/2022 12:57:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 12:57:00 PM	67629
Toluene	ND	0.048		mg/Kg	1	5/24/2022 12:57:00 PM	67629
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 12:57:00 PM	67629
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022 12:57:00 PM	67629
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	5/24/2022 12:57:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW7
Project: SJ 27 5 69
Collection Date: 5/19/2022 1:08:00 PM
Lab ID: 2205984-007 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	440	60		mg/Kg	20	5/26/2022 2:02:45 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	10	9.2		mg/Kg	1	5/26/2022 5:41:03 PM	67677
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/26/2022 5:41:03 PM	67677
Surr: DNOP	132	51.1-141		%Rec	1	5/26/2022 5:41:03 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 1:17:00 PM	67629
Surr: BFB	98.3	37.7-212		%Rec	1	5/24/2022 1:17:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:17:00 PM	67629
Toluene	ND	0.049		mg/Kg	1	5/24/2022 1:17:00 PM	67629
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 1:17:00 PM	67629
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 1:17:00 PM	67629
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	5/24/2022 1:17:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW8
Project: SJ 27 5 69
Collection Date: 5/19/2022 1:20:00 PM
Lab ID: 2205984-008 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	230	60		mg/Kg	20	5/26/2022 2:15:09 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	17	8.9		mg/Kg	1	5/26/2022 5:52:00 PM	67677
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/26/2022 5:52:00 PM	67677
Surr: DNOP	95.6	51.1-141		%Rec	1	5/26/2022 5:52:00 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 1:36:00 PM	67629
Surr: BFB	103	37.7-212		%Rec	1	5/24/2022 1:36:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 1:36:00 PM	67629
Toluene	ND	0.048		mg/Kg	1	5/24/2022 1:36:00 PM	67629
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 1:36:00 PM	67629
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 1:36:00 PM	67629
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	5/24/2022 1:36:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH1
Project: SJ 27 5 69
Collection Date: 5/19/2022 1:40:00 PM
Lab ID: 2205984-009 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	73	60		mg/Kg	20	5/26/2022 2:27:34 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	240	9.3		mg/Kg	1	5/26/2022 6:03:02 PM	67677
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/26/2022 6:03:02 PM	67677
Surr: DNOP	93.6	51.1-141		%Rec	1	5/26/2022 6:03:02 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 2:16:00 PM	67629
Surr: BFB	98.2	37.7-212		%Rec	1	5/24/2022 2:16:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 2:16:00 PM	67629
Toluene	ND	0.048		mg/Kg	1	5/24/2022 2:16:00 PM	67629
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 2:16:00 PM	67629
Xylenes, Total	ND	0.095		mg/Kg	1	5/24/2022 2:16:00 PM	67629
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	5/24/2022 2:16:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH2
Project: SJ 27 5 69
Collection Date: 5/19/2022 1:50:00 PM
Lab ID: 2205984-010 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	110	60		mg/Kg	20	5/26/2022 2:39:59 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	100	9.6		mg/Kg	1	5/26/2022 6:13:59 PM	67677
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/26/2022 6:13:59 PM	67677
Surr: DNOP	116	51.1-141		%Rec	1	5/26/2022 6:13:59 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	9.8	4.9		mg/Kg	1	5/24/2022 2:35:00 PM	67629
Surr: BFB	158	37.7-212		%Rec	1	5/24/2022 2:35:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 2:35:00 PM	67629
Toluene	ND	0.049		mg/Kg	1	5/24/2022 2:35:00 PM	67629
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 2:35:00 PM	67629
Xylenes, Total	ND	0.098		mg/Kg	1	5/24/2022 2:35:00 PM	67629
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/24/2022 2:35:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH3
Project: SJ 27 5 69
Collection Date: 5/19/2022 2:00:00 PM
Lab ID: 2205984-011 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	110	60		mg/Kg	20	5/26/2022 2:52:23 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	59	9.8		mg/Kg	1	5/26/2022 6:24:57 PM	67677
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 6:24:57 PM	67677
Surr: DNOP	88.0	51.1-141		%Rec	1	5/26/2022 6:24:57 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 3:09:00 PM	67629
Surr: BFB	122	37.7-212		%Rec	1	5/24/2022 3:09:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 3:09:00 PM	67629
Toluene	ND	0.048		mg/Kg	1	5/24/2022 3:09:00 PM	67629
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 3:09:00 PM	67629
Xylenes, Total	ND	0.097		mg/Kg	1	5/24/2022 3:09:00 PM	67629
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/24/2022 3:09:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH4
Project: SJ 27 5 69
Collection Date: 5/19/2022 2:40:00 PM
Lab ID: 2205984-012 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	160	60		mg/Kg	20	5/26/2022 3:04:48 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	110	9.7		mg/Kg	1	5/26/2022 6:35:52 PM	67677
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 6:35:52 PM	67677
Surr: DNOP	116	51.1-141		%Rec	1	5/26/2022 6:35:52 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	5/24/2022 3:28:00 PM	67629
Surr: BFB	127	37.7-212		%Rec	5	5/24/2022 3:28:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	5/24/2022 3:28:00 PM	67629
Toluene	ND	0.24		mg/Kg	5	5/24/2022 3:28:00 PM	67629
Ethylbenzene	ND	0.24		mg/Kg	5	5/24/2022 3:28:00 PM	67629
Xylenes, Total	ND	0.48		mg/Kg	5	5/24/2022 3:28:00 PM	67629
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	5	5/24/2022 3:28:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205984**
Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH5
Project: SJ 27 5 69
Collection Date: 5/19/2022 2:55:00 PM
Lab ID: 2205984-013 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	79	60		mg/Kg	20	5/26/2022 3:17:13 AM	67707
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	17	8.6		mg/Kg	1	5/26/2022 6:46:45 PM	67677
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	5/26/2022 6:46:45 PM	67677
Surr: DNOP	88.4	51.1-141		%Rec	1	5/26/2022 6:46:45 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/24/2022 3:48:00 PM	67629
Surr: BFB	107	37.7-212		%Rec	1	5/24/2022 3:48:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/24/2022 3:48:00 PM	67629
Toluene	ND	0.049		mg/Kg	1	5/24/2022 3:48:00 PM	67629
Ethylbenzene	ND	0.049		mg/Kg	1	5/24/2022 3:48:00 PM	67629
Xylenes, Total	ND	0.099		mg/Kg	1	5/24/2022 3:48:00 PM	67629
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	5/24/2022 3:48:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205984**

02-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **MB-67707**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67707**	RunNo: **88280**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3130762** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67707**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67707**	RunNo: **88280**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3130763** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Sample ID: **LCS-67699**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67699**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3131011** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Sample ID: **MB-67699**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67699**	RunNo: **88285**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3131012** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205984**

02-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **MB-67677**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67677**	RunNo: **88283**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		78.8	51.1	141			

Sample ID: **2205984-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW1**	Batch ID: **67677**	RunNo: **88283**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131786** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	190	9.4	46.95	91.33	212	36.1	154			S
Surr: DNOP	5.9		4.695		126	51.1	141			

Sample ID: **2205984-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW1**	Batch ID: **67677**	RunNo: **88283**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131787** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	210	9.7	48.69	91.33	235	36.1	154	7.52	33.9	S
Surr: DNOP	4.4		4.869		90.1	51.1	141	0	0	

Sample ID: **MB-67680**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67680**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132682** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.1	51.1	141			

Sample ID: **LCS-67680**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67680**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132685** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

Sample ID: **LCS-67677**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67677**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/27/2022**	SeqNo: **3132733** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.5	64.4	127			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205984**

02-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **LCS-67677**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67677**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/27/2022**	SeqNo: **3132733** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.6	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205984**

02-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-67629**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128800** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	72.3	137			
Surr: BFB	1800		1000		182	37.7	212			

Sample ID: **mb-67629**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128801** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.0	37.7	212			

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128820** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128821** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.2	37.7	212			

Sample ID: **lcs-67640**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67640**	RunNo: **88271**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130151** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: **mb-67640**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67640**	RunNo: **88271**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130152** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		87.4	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205984**

02-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-67656**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67656**	RunNo: **88271**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130175** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: **mb-67656**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67656**	RunNo: **88271**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130176** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.1	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205984**

02-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-67629**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128852** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.92	0.050	1.000	0	92.2	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.0	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

Sample ID: **mb-67629**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128853** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Sample ID: **2205984-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW1**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128857** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9862	0	103	68.8	120			
Toluene	1.1	0.049	0.9862	0	107	73.6	124			
Ethylbenzene	1.2	0.049	0.9862	0.09478	111	72.7	129			
Xylenes, Total	3.4	0.099	2.959	0.2772	107	75.7	126			
Surr: 4-Bromofluorobenzene	1.4		0.9862		137	70	130			S

Sample ID: **2205984-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW1**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128858** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9794	0	107	68.8	120	2.54	20	
Toluene	1.1	0.049	0.9794	0	110	73.6	124	2.49	20	
Ethylbenzene	1.2	0.049	0.9794	0.09478	116	72.7	129	3.39	20	
Xylenes, Total	3.6	0.098	2.938	0.2772	113	75.7	126	3.86	20	
Surr: 4-Bromofluorobenzene	1.4		0.9794		141	70	130	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205984**

02-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**							
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128876**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**							
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128877**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	70	130			

Sample ID: **lcs-67640**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **67640**	RunNo: **88271**							
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130202**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	70	130			

Sample ID: **mb-67640**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **67640**	RunNo: **88271**							
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130203**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

Sample ID: **lcs-67656**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **67656**	RunNo: **88271**							
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130224**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	70	130			

Sample ID: **mb-67656**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **67656**	RunNo: **88271**							
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130225**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Timberwolf Environmental Work Order Number: 2205984 RcptNo: 1

Received By: Tracy Casarrubias 5/21/2022 9:45:00 AM

Completed By: Tracy Casarrubias 5/21/2022 1:07:27 PM

Reviewed By: JM 5/23/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by CMC 5/23/22 CMC 5/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Not Present			

Chain-of-Custody Record

Client: Timberwolf Environmental

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5 day
☒ Standard ☐ Rush

Project Name: 27-5 SJ ~~27-6a~~ #69

Project #: 180934

Project Manager: Jim Foster

Sampler: JF

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.7+0.1=3.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205984	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/19/22	1240	Soil	SW1	4oz Jar	Cool	001	✓	✓								
	1245		SW2			002	✓	✓								
	1250		SW3			003	✓	✓								
	1255		SW4			004	✓	✓								
	1300		SW5			005	✓	✓								
	1305		SW6			006	✓	✓								
	1308		SW7			007	✓	✓								
	1320		SW8			008	✓	✓								
	1340		BH1			009	✓	✓								
	1350		BH2			010	✓	✓								
	1400		BH3			011	✓	✓								
	1440		BH4			012	✓	✓								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/19	1900				5/19/22	1900
5/20/22	1747			Courier	5/21/22	9:45

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Timberwolf Env

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day
☒ Standard ☐ Rush

Project Name: SJ 27-5 #69

Project #: 180034

Project Manager: Jim Foster

Sampler: JF

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.7 +0.1 = 3.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205984	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/19	1458	Soil	~~Soil~~ BH 5	(1) 4oz Jar	Cool	0013	✓	✓								
			End of Chain													

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/19	1900		Mint Wash		5/19/22	1906
5/20/22	1747	Mint Wash		Courier	5/21/22	9:45

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 01, 2022

Jim Foster

Timberwolf Environmental
1920 W Villa Maria Ste 205
Bryan, TX 77807
TEL: (979) 324-2139
FAX:

RE: SJ 27 5 69 OrderNo.: 2205985

Dear Jim Foster:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/21/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205985**
Date Reported: **6/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH6
Project: SJ 27 5 69
Collection Date: 5/20/2022 10:55:00 AM
Lab ID: 2205985-001 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/26/2022 6:57:39 PM	67677
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/26/2022 6:57:39 PM	67677
Surr: DNOP	83.0	51.1-141		%Rec	1	5/26/2022 6:57:39 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/24/2022 4:08:00 PM	67629
Surr: BFB	81.6	37.7-212		%Rec	1	5/24/2022 4:08:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/24/2022 4:08:00 PM	67629
Toluene	ND	0.048		mg/Kg	1	5/24/2022 4:08:00 PM	67629
Ethylbenzene	ND	0.048		mg/Kg	1	5/24/2022 4:08:00 PM	67629
Xylenes, Total	ND	0.096		mg/Kg	1	5/24/2022 4:08:00 PM	67629
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	5/24/2022 4:08:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205985**
Date Reported: **6/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH7
Project: SJ 27 5 69
Collection Date: 5/20/2022 11:12:00 AM
Lab ID: 2205985-002 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	63	9.8		mg/Kg	1	5/26/2022 7:08:32 PM	67677
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2022 7:08:32 PM	67677
Surr: DNOP	120	51.1-141		%Rec	1	5/26/2022 7:08:32 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	5/24/2022 4:27:00 PM	67629
Surr: BFB	116	37.7-212		%Rec	5	5/24/2022 4:27:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	5/24/2022 4:27:00 PM	67629
Toluene	ND	0.25		mg/Kg	5	5/24/2022 4:27:00 PM	67629
Ethylbenzene	ND	0.25		mg/Kg	5	5/24/2022 4:27:00 PM	67629
Xylenes, Total	ND	0.50		mg/Kg	5	5/24/2022 4:27:00 PM	67629
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	5	5/24/2022 4:27:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205985**
Date Reported: **6/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH8
Project: SJ 27 5 69
Collection Date: 5/20/2022 11:02:00 AM
Lab ID: 2205985-003 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	680	9.9		mg/Kg	1	5/26/2022 7:19:27 PM	67677
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/26/2022 7:19:27 PM	67677
Surr: DNOP	118	51.1-141		%Rec	1	5/26/2022 7:19:27 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	60	25		mg/Kg	5	5/24/2022 4:47:00 PM	67629
Surr: BFB	185	37.7-212		%Rec	5	5/24/2022 4:47:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	5/24/2022 4:47:00 PM	67629
Toluene	ND	0.25		mg/Kg	5	5/24/2022 4:47:00 PM	67629
Ethylbenzene	0.31	0.25		mg/Kg	5	5/24/2022 4:47:00 PM	67629
Xylenes, Total	ND	0.49		mg/Kg	5	5/24/2022 4:47:00 PM	67629
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	5	5/24/2022 4:47:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205985**
Date Reported: **6/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH9
Project: SJ 27 5 69
Collection Date: 5/20/2022 10:50:00 AM
Lab ID: 2205985-004 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	24	9.6		mg/Kg	1	5/26/2022 7:30:20 PM	67677
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/26/2022 7:30:20 PM	67677
Surr: DNOP	84.6	51.1-141		%Rec	1	5/26/2022 7:30:20 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	11	4.6		mg/Kg	1	5/24/2022 5:07:00 PM	67629
Surr: BFB	190	37.7-212		%Rec	1	5/24/2022 5:07:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/24/2022 5:07:00 PM	67629
Toluene	ND	0.046		mg/Kg	1	5/24/2022 5:07:00 PM	67629
Ethylbenzene	ND	0.046		mg/Kg	1	5/24/2022 5:07:00 PM	67629
Xylenes, Total	ND	0.093		mg/Kg	1	5/24/2022 5:07:00 PM	67629
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/24/2022 5:07:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205985**
Date Reported: **6/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH10
Project: SJ 27 5 69
Collection Date: 5/20/2022 10:40:00 AM
Lab ID: 2205985-005 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	110	8.8		mg/Kg	1	5/26/2022 7:41:07 PM	67677
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/26/2022 7:41:07 PM	67677
Surr: DNOP	82.3	51.1-141		%Rec	1	5/26/2022 7:41:07 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	9.1	4.7		mg/Kg	1	5/24/2022 5:26:00 PM	67629
Surr: BFB	174	37.7-212		%Rec	1	5/24/2022 5:26:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/24/2022 5:26:00 PM	67629
Toluene	ND	0.047		mg/Kg	1	5/24/2022 5:26:00 PM	67629
Ethylbenzene	ND	0.047		mg/Kg	1	5/24/2022 5:26:00 PM	67629
Xylenes, Total	ND	0.094		mg/Kg	1	5/24/2022 5:26:00 PM	67629
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	5/24/2022 5:26:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205985**
Date Reported: **6/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH11
Project: SJ 27 5 69
Collection Date: 5/20/2022 2:10:00 PM
Lab ID: 2205985-006 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	400	9.1		mg/Kg	1	5/26/2022 7:51:58 PM	67677
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/26/2022 7:51:58 PM	67677
Surr: DNOP	115	51.1-141		%Rec	1	5/26/2022 7:51:58 PM	67677
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	43	23		mg/Kg	5	5/25/2022 12:50:00 PM	67629
Surr: BFB	157	37.7-212		%Rec	5	5/25/2022 12:50:00 PM	67629
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	5/25/2022 12:50:00 PM	67629
Toluene	ND	0.23		mg/Kg	5	5/25/2022 12:50:00 PM	67629
Ethylbenzene	ND	0.23		mg/Kg	5	5/25/2022 12:50:00 PM	67629
Xylenes, Total	ND	0.47		mg/Kg	5	5/25/2022 12:50:00 PM	67629
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	5	5/25/2022 12:50:00 PM	67629

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2205985**
Date Reported: **6/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH12
Project: SJ 27 5 69
Collection Date: 5/20/2022 2:25:00 PM
Lab ID: 2205985-007 **Matrix:** SOIL **Received Date:** 5/21/2022 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1300	93		mg/Kg	10	5/27/2022 7:07:09 PM	67662
Motor Oil Range Organics (MRO)	ND	460	D	mg/Kg	10	5/27/2022 7:07:09 PM	67662
Surr: DNOP	0	51.1-141	S	%Rec	10	5/27/2022 7:07:09 PM	67662
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	460	24		mg/Kg	5	5/25/2022 9:02:53 AM	67636
Surr: BFB	261	37.7-212	S	%Rec	5	5/25/2022 9:02:53 AM	67636
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	5/25/2022 9:02:53 AM	67636
Toluene	0.52	0.24		mg/Kg	5	5/25/2022 9:02:53 AM	67636
Ethylbenzene	1.6	0.24		mg/Kg	5	5/25/2022 9:02:53 AM	67636
Xylenes, Total	20	0.49		mg/Kg	5	5/25/2022 9:02:53 AM	67636
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	5	5/25/2022 9:02:53 AM	67636

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205985**

01-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **MB-67666**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67666**	RunNo: **88263**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131422** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	51.1	141			

Sample ID: **LCS-67666**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67666**	RunNo: **88263**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131423** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	51.1	141			

Sample ID: **MB-67677**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67677**	RunNo: **88283**
Prep Date: **5/25/2022**	Analysis Date: **5/26/2022**	SeqNo: **3131761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		78.8	51.1	141			

Sample ID: **MB-67662**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67662**	RunNo: **88263**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132846** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.6		10.00		76.0	51.1	141			

Sample ID: **LCS-67662**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67662**	RunNo: **88263**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3132847** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	109	64.4	127			
Surr: DNOP	4.6		5.000		92.3	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205985**

01-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **mb-67636**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67636**	RunNo: **88235**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3128729** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.7	37.7	212			

Sample ID: **lcs-67636**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67636**	RunNo: **88235**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128730** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: **lcs-67629**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128800** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	72.3	137			
Surr: BFB	1800		1000		182	37.7	212			

Sample ID: **mb-67629**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128801** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.0	37.7	212			

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128820** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128821** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.2	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205985**

01-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **mb-67661**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67661**	RunNo: **88270**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3130075** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.3	37.7	212			

Sample ID: **lcs-67661**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67661**	RunNo: **88270**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130076** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		205	37.7	212			

Sample ID: **lcs-67640**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67640**	RunNo: **88271**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130151** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: **mb-67640**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67640**	RunNo: **88271**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130152** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		87.4	37.7	212			

Sample ID: **lcs-67656**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67656**	RunNo: **88271**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130175** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: **mb-67656**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67656**	RunNo: **88271**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130176** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.1	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205985**

01-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **mb-67636**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67636**	RunNo: **88235**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3128769** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	70	130			

Sample ID: **LCS-67636**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67636**	RunNo: **88235**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128770** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	80	120			
Toluene	0.94	0.050	1.000	0	93.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.6	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: **lcs-67629**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128852** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.92	0.050	1.000	0	92.2	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.0	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

Sample ID: **mb-67629**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67629**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128853** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205985**

01-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-67637**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128876** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			

Sample ID: **mb-67637**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67637**	RunNo: **88236**
Prep Date: **5/23/2022**	Analysis Date: **5/24/2022**	SeqNo: **3128877** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	70	130			

Sample ID: **mb-67661**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67661**	RunNo: **88270**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3130123** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Sample ID: **LCS-67661**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67661**	RunNo: **88270**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130124** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	70	130			

Sample ID: **lcs-67640**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67640**	RunNo: **88271**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130202** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	70	130			

Sample ID: **mb-67640**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67640**	RunNo: **88271**
Prep Date: **5/23/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130203** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205985**

01-Jun-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-67656**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67656**	RunNo: **88271**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130224** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	70	130			

Sample ID: **mb-67656**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67656**	RunNo: **88271**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130225** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Timberwolf Environmental Work Order Number: 2205985 RcptNo: 1

Received By: **Tracy Casarrubias** 5/21/2022 9:45:00 AM

Completed By: **Tracy Casarrubias** 5/21/2022 1:27:05 PM

Reviewed By: JN 5/23/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: MC 5/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Not Present			

Chain-of-Custody Record

Client: Timberwolf Env

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5 day
☒ Standard ☐ Rush

Project Name: SJ 27-5 #69
~~180.00~~

Project #:
180334

Project Manager:
Jim Foster

Sampler: JF
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.7 +0.1 = 3.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205985	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/20/22	1055	Soil	BH6	(1) 4oz Jar	Cool	001	X	X								
	1112		BH7			002	X	X								
	1102		BH8			003	X	X								
	1050		BH9			004	X	X								
	1040		BH10			005	X	X								
	1410		BH11			0060	X	X								
	1425		BH12			007	X	X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/20/22	1620		Client Walk		5/20/22	1620
5/20/22	1747	Client Walk		Courier	5/21/22	9:45

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 07, 2022

Jim Foster

Timberwolf Environmental
1920 W Villa Maria Ste 205
Bryan, TX 77807
TEL: (979) 324-2139
FAX:

RE: SJ 27 5 69 OrderNo.: 2206E14

Dear Jim Foster:

Hall Environmental Analysis Laboratory received 38 sample(s) on 6/25/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS1
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:30:00 PM
Lab ID: 2206E14-001 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	360	15		mg/Kg	1	7/1/2022 2:59:47 AM	68418
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	7/1/2022 2:59:47 AM	68418
Surr: DNOP	94.5	51.1-141		%Rec	1	7/1/2022 2:59:47 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/28/2022 9:08:00 PM	68388
Surr: BFB	130	37.7-212		%Rec	5	6/28/2022 9:08:00 PM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/28/2022 9:08:00 PM	68388
Toluene	ND	0.25		mg/Kg	5	6/28/2022 9:08:00 PM	68388
Ethylbenzene	ND	0.25		mg/Kg	5	6/28/2022 9:08:00 PM	68388
Xylenes, Total	ND	0.49		mg/Kg	5	6/28/2022 9:08:00 PM	68388
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	5	6/28/2022 9:08:00 PM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS2
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:15:00 PM
Lab ID: 2206E14-002 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	330	15		mg/Kg	1	7/1/2022 3:13:47 AM	68418
Motor Oil Range Organics (MRO)	83	50		mg/Kg	1	7/1/2022 3:13:47 AM	68418
Surr: DNOP	102	51.1-141		%Rec	1	7/1/2022 3:13:47 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/28/2022 10:07:00 PM	68388
Surr: BFB	132	37.7-212		%Rec	5	6/28/2022 10:07:00 PM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/28/2022 10:07:00 PM	68388
Toluene	ND	0.25		mg/Kg	5	6/28/2022 10:07:00 PM	68388
Ethylbenzene	ND	0.25		mg/Kg	5	6/28/2022 10:07:00 PM	68388
Xylenes, Total	ND	0.50		mg/Kg	5	6/28/2022 10:07:00 PM	68388
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	5	6/28/2022 10:07:00 PM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS3
Project: SJ 27 5 69
Collection Date: 6/23/2022 12:15:00 PM
Lab ID: 2206E14-003 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	360	14		mg/Kg	1	7/1/2022 3:27:31 AM	68418
Motor Oil Range Organics (MRO)	50	48		mg/Kg	1	7/1/2022 3:27:31 AM	68418
Surr: DNOP	102	51.1-141		%Rec	1	7/1/2022 3:27:31 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	44	23		mg/Kg	5	6/28/2022 11:06:00 PM	68388
Surr: BFB	169	37.7-212		%Rec	5	6/28/2022 11:06:00 PM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/28/2022 11:06:00 PM	68388
Toluene	ND	0.23		mg/Kg	5	6/28/2022 11:06:00 PM	68388
Ethylbenzene	ND	0.23		mg/Kg	5	6/28/2022 11:06:00 PM	68388
Xylenes, Total	ND	0.47		mg/Kg	5	6/28/2022 11:06:00 PM	68388
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	6/28/2022 11:06:00 PM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS4
Project: SJ 27 5 69
Collection Date: 6/23/2022 12:08:00 PM
Lab ID: 2206E14-004 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	340	14		mg/Kg	1	7/1/2022 3:41:14 AM	68418
Motor Oil Range Organics (MRO)	60	48		mg/Kg	1	7/1/2022 3:41:14 AM	68418
Surr: DNOP	103	51.1-141		%Rec	1	7/1/2022 3:41:14 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/28/2022 11:26:00 PM	68388
Surr: BFB	133	37.7-212		%Rec	5	6/28/2022 11:26:00 PM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/28/2022 11:26:00 PM	68388
Toluene	ND	0.24		mg/Kg	5	6/28/2022 11:26:00 PM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/28/2022 11:26:00 PM	68388
Xylenes, Total	ND	0.48		mg/Kg	5	6/28/2022 11:26:00 PM	68388
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	5	6/28/2022 11:26:00 PM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS5
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:20:00 PM
Lab ID: 2206E14-005 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	310	15		mg/Kg	1	7/1/2022 3:54:58 AM	68418
Motor Oil Range Organics (MRO)	82	50		mg/Kg	1	7/1/2022 3:54:58 AM	68418
Surr: DNOP	103	51.1-141		%Rec	1	7/1/2022 3:54:58 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/28/2022 11:45:00 PM	68388
Surr: BFB	129	37.7-212		%Rec	5	6/28/2022 11:45:00 PM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/28/2022 11:45:00 PM	68388
Toluene	ND	0.24		mg/Kg	5	6/28/2022 11:45:00 PM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/28/2022 11:45:00 PM	68388
Xylenes, Total	ND	0.48		mg/Kg	5	6/28/2022 11:45:00 PM	68388
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	5	6/28/2022 11:45:00 PM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS6
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:05:00 PM
Lab ID: 2206E14-006 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	400	14		mg/Kg	1	7/1/2022 4:08:35 AM	68418
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/1/2022 4:08:35 AM	68418
Surr: DNOP	106	51.1-141		%Rec	1	7/1/2022 4:08:35 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	29	24		mg/Kg	5	6/29/2022 12:05:00 AM	68388
Surr: BFB	148	37.7-212		%Rec	5	6/29/2022 12:05:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 12:05:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 12:05:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 12:05:00 AM	68388
Xylenes, Total	ND	0.48		mg/Kg	5	6/29/2022 12:05:00 AM	68388
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	6/29/2022 12:05:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS7
Project: SJ 27 5 69
Collection Date: 6/23/2022 12:30:00 PM
Lab ID: 2206E14-007 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	440	15		mg/Kg	1	7/1/2022 4:22:19 AM	68418
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/1/2022 4:22:19 AM	68418
Surr: DNOP	103	51.1-141		%Rec	1	7/1/2022 4:22:19 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	38	24		mg/Kg	5	6/29/2022 12:44:00 AM	68388
Surr: BFB	160	37.7-212		%Rec	5	6/29/2022 12:44:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 12:44:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 12:44:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 12:44:00 AM	68388
Xylenes, Total	ND	0.48		mg/Kg	5	6/29/2022 12:44:00 AM	68388
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	6/29/2022 12:44:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS8
Project: SJ 27 5 69
Collection Date: 6/23/2022 12:00:00 PM
Lab ID: 2206E14-008 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	320	15		mg/Kg	1	7/1/2022 4:36:11 AM	68418
Motor Oil Range Organics (MRO)	74	49		mg/Kg	1	7/1/2022 4:36:11 AM	68418
Surr: DNOP	96.5	51.1-141		%Rec	1	7/1/2022 4:36:11 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	37	24		mg/Kg	5	6/29/2022 1:04:00 AM	68388
Surr: BFB	154	37.7-212		%Rec	5	6/29/2022 1:04:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 1:04:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 1:04:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 1:04:00 AM	68388
Xylenes, Total	ND	0.48		mg/Kg	5	6/29/2022 1:04:00 AM	68388
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	6/29/2022 1:04:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS9
Project: SJ 27 5 69
Collection Date: 6/23/2022 11:40:00 AM
Lab ID: 2206E14-009 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	320	14		mg/Kg	1	7/1/2022 4:50:07 AM	68418
Motor Oil Range Organics (MRO)	72	46		mg/Kg	1	7/1/2022 4:50:07 AM	68418
Surr: DNOP	95.3	51.1-141		%Rec	1	7/1/2022 4:50:07 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	37	24		mg/Kg	5	6/29/2022 1:24:00 AM	68388
Surr: BFB	151	37.7-212		%Rec	5	6/29/2022 1:24:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 1:24:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 1:24:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 1:24:00 AM	68388
Xylenes, Total	ND	0.47		mg/Kg	5	6/29/2022 1:24:00 AM	68388
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	5	6/29/2022 1:24:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS10
Project: SJ 27 5 69
Collection Date: 6/23/2022 12:55:00 PM
Lab ID: 2206E14-010 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	440	15		mg/Kg	1	7/1/2022 5:04:02 AM	68418
Motor Oil Range Organics (MRO)	97	50		mg/Kg	1	7/1/2022 5:04:02 AM	68418
Surr: DNOP	99.8	51.1-141		%Rec	1	7/1/2022 5:04:02 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	44	24		mg/Kg	5	6/29/2022 1:43:00 AM	68388
Surr: BFB	170	37.7-212		%Rec	5	6/29/2022 1:43:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 1:43:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 1:43:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 1:43:00 AM	68388
Xylenes, Total	ND	0.47		mg/Kg	5	6/29/2022 1:43:00 AM	68388
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	6/29/2022 1:43:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS11
Project: SJ 27 5 69
Collection Date: 6/23/2022 12:40:00 PM
Lab ID: 2206E14-011 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	420	15		mg/Kg	1	7/1/2022 5:17:48 AM	68418
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/1/2022 5:17:48 AM	68418
Surr: DNOP	98.0	51.1-141		%Rec	1	7/1/2022 5:17:48 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	36	23		mg/Kg	5	6/29/2022 2:03:00 AM	68388
Surr: BFB	158	37.7-212		%Rec	5	6/29/2022 2:03:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 2:03:00 AM	68388
Toluene	ND	0.23		mg/Kg	5	6/29/2022 2:03:00 AM	68388
Ethylbenzene	ND	0.23		mg/Kg	5	6/29/2022 2:03:00 AM	68388
Xylenes, Total	ND	0.46		mg/Kg	5	6/29/2022 2:03:00 AM	68388
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	6/29/2022 2:03:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS12
Project: SJ 27 5 69
Collection Date: 6/23/2022 11:50:00 AM
Lab ID: 2206E14-012 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	900	15		mg/Kg	1	7/1/2022 2:41:47 PM	68418
Motor Oil Range Organics (MRO)	580	49		mg/Kg	1	7/1/2022 2:41:47 PM	68418
Surr: DNOP	85.9	51.1-141		%Rec	1	7/1/2022 2:41:47 PM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	26	24		mg/Kg	5	6/29/2022 2:23:00 AM	68388
Surr: BFB	139	37.7-212		%Rec	5	6/29/2022 2:23:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 2:23:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 2:23:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 2:23:00 AM	68388
Xylenes, Total	ND	0.48		mg/Kg	5	6/29/2022 2:23:00 AM	68388
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	6/29/2022 2:23:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS13
Project: SJ 27 5 69
Collection Date: 6/23/2022 11:30:00 AM
Lab ID: 2206E14-013 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	520	14		mg/Kg	1	7/1/2022 5:45:25 AM	68418
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/1/2022 5:45:25 AM	68418
Surr: DNOP	98.4	51.1-141		%Rec	1	7/1/2022 5:45:25 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	44	24		mg/Kg	5	6/29/2022 2:42:00 AM	68388
Surr: BFB	170	37.7-212		%Rec	5	6/29/2022 2:42:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 2:42:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 2:42:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 2:42:00 AM	68388
Xylenes, Total	ND	0.49		mg/Kg	5	6/29/2022 2:42:00 AM	68388
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	6/29/2022 2:42:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS14
Project: SJ 27 5 69
Collection Date: 6/23/2022 2:35:00 PM
Lab ID: 2206E14-014 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	210	15		mg/Kg	1	7/1/2022 5:59:16 AM	68418
Motor Oil Range Organics (MRO)	53	50		mg/Kg	1	7/1/2022 5:59:16 AM	68418
Surr: DNOP	100	51.1-141		%Rec	1	7/1/2022 5:59:16 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/29/2022 3:02:00 AM	68388
Surr: BFB	126	37.7-212		%Rec	5	6/29/2022 3:02:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 3:02:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 3:02:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 3:02:00 AM	68388
Xylenes, Total	ND	0.47		mg/Kg	5	6/29/2022 3:02:00 AM	68388
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	5	6/29/2022 3:02:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS15
Project: SJ 27 5 69
Collection Date: 6/23/2022 2:45:00 PM
Lab ID: 2206E14-015 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	370	14		mg/Kg	1	7/1/2022 6:13:07 AM	68418
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/1/2022 6:13:07 AM	68418
Surr: DNOP	99.5	51.1-141		%Rec	1	7/1/2022 6:13:07 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	37	24		mg/Kg	5	6/29/2022 3:22:00 AM	68388
Surr: BFB	150	37.7-212		%Rec	5	6/29/2022 3:22:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 3:22:00 AM	68388
Toluene	ND	0.24		mg/Kg	5	6/29/2022 3:22:00 AM	68388
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 3:22:00 AM	68388
Xylenes, Total	ND	0.47		mg/Kg	5	6/29/2022 3:22:00 AM	68388
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	6/29/2022 3:22:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS16
Project: SJ 27 5 69
Collection Date: 6/23/2022 2:55:00 PM
Lab ID: 2206E14-016 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	370	14		mg/Kg	1	7/1/2022 6:26:59 AM	68418
Motor Oil Range Organics (MRO)	84	47		mg/Kg	1	7/1/2022 6:26:59 AM	68418
Surr: DNOP	100	51.1-141		%Rec	1	7/1/2022 6:26:59 AM	68418
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	31	25		mg/Kg	5	6/29/2022 3:41:00 AM	68388
Surr: BFB	141	37.7-212		%Rec	5	6/29/2022 3:41:00 AM	68388
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 3:41:00 AM	68388
Toluene	ND	0.25		mg/Kg	5	6/29/2022 3:41:00 AM	68388
Ethylbenzene	ND	0.25		mg/Kg	5	6/29/2022 3:41:00 AM	68388
Xylenes, Total	ND	0.49		mg/Kg	5	6/29/2022 3:41:00 AM	68388
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	6/29/2022 3:41:00 AM	68388

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS17
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:05:00 PM
Lab ID: 2206E14-017 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	340	15		mg/Kg	1	6/30/2022 2:36:40 PM	68420
Motor Oil Range Organics (MRO)	97	48		mg/Kg	1	6/30/2022 2:36:40 PM	68420
Surr: DNOP	114	51.1-141		%Rec	1	6/30/2022 2:36:40 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	29	24		mg/Kg	5	6/29/2022 10:54:37 AM	68389
Surr: BFB	151	37.7-212		%Rec	5	6/29/2022 10:54:37 AM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 10:54:37 AM	68389
Toluene	ND	0.24		mg/Kg	5	6/29/2022 10:54:37 AM	68389
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 10:54:37 AM	68389
Xylenes, Total	ND	0.48		mg/Kg	5	6/29/2022 10:54:37 AM	68389
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	5	6/29/2022 10:54:37 AM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS18
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:10:00 PM
Lab ID: 2206E14-018 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	270	15		mg/Kg	1	6/30/2022 3:48:35 PM	68420
Motor Oil Range Organics (MRO)	60	49		mg/Kg	1	6/30/2022 3:48:35 PM	68420
Surr: DNOP	116	51.1-141		%Rec	1	6/30/2022 3:48:35 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/29/2022 12:05:19 PM	68389
Surr: BFB	138	37.7-212		%Rec	5	6/29/2022 12:05:19 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/29/2022 12:05:19 PM	68389
Toluene	ND	0.24		mg/Kg	5	6/29/2022 12:05:19 PM	68389
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2022 12:05:19 PM	68389
Xylenes, Total	ND	0.49		mg/Kg	5	6/29/2022 12:05:19 PM	68389
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	5	6/29/2022 12:05:19 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS19
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:15:00 PM
Lab ID: 2206E14-019 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	270	14		mg/Kg	1	6/30/2022 4:12:27 PM	68420
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2022 4:12:27 PM	68420
Surr: DNOP	118	51.1-141		%Rec	1	6/30/2022 4:12:27 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	16	4.9		mg/Kg	1	6/29/2022 1:16:08 PM	68389
Surr: BFB	194	37.7-212		%Rec	1	6/29/2022 1:16:08 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 1:16:08 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 1:16:08 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 1:16:08 PM	68389
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2022 1:16:08 PM	68389
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/29/2022 1:16:08 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS20
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:20:00 PM
Lab ID: 2206E14-020 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	390	15		mg/Kg	1	6/30/2022 4:36:20 PM	68420
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2022 4:36:20 PM	68420
Surr: DNOP	111	51.1-141		%Rec	1	6/30/2022 4:36:20 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	28	4.8		mg/Kg	1	6/29/2022 1:39:50 PM	68389
Surr: BFB	240	37.7-212	S	%Rec	1	6/29/2022 1:39:50 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 1:39:50 PM	68389
Toluene	ND	0.048		mg/Kg	1	6/29/2022 1:39:50 PM	68389
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2022 1:39:50 PM	68389
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2022 1:39:50 PM	68389
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/29/2022 1:39:50 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS21
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:35:00 PM
Lab ID: 2206E14-021 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	320	15		mg/Kg	1	6/30/2022 5:00:23 PM	68420
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2022 5:00:23 PM	68420
Surr: DNOP	105	51.1-141		%Rec	1	6/30/2022 5:00:23 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	31	4.6		mg/Kg	1	6/29/2022 2:03:29 PM	68389
Surr: BFB	511	37.7-212	S	%Rec	1	6/29/2022 2:03:29 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/29/2022 2:03:29 PM	68389
Toluene	ND	0.046		mg/Kg	1	6/29/2022 2:03:29 PM	68389
Ethylbenzene	ND	0.046		mg/Kg	1	6/29/2022 2:03:29 PM	68389
Xylenes, Total	ND	0.093		mg/Kg	1	6/29/2022 2:03:29 PM	68389
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/29/2022 2:03:29 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: TS22
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:00:00 PM
Lab ID: 2206E14-022 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	510	15		mg/Kg	1	6/30/2022 5:24:20 PM	68420
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2022 5:24:20 PM	68420
Surr: DNOP	109	51.1-141		%Rec	1	6/30/2022 5:24:20 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	64	5.0		mg/Kg	1	6/29/2022 2:27:10 PM	68389
Surr: BFB	317	37.7-212	S	%Rec	1	6/29/2022 2:27:10 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2022 2:27:10 PM	68389
Toluene	ND	0.050		mg/Kg	1	6/29/2022 2:27:10 PM	68389
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2022 2:27:10 PM	68389
Xylenes, Total	0.48	0.099		mg/Kg	1	6/29/2022 2:27:10 PM	68389
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	6/29/2022 2:27:10 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW6A
Project: SJ 27 5 69
Collection Date: 6/23/2022 11:10:00 AM
Lab ID: 2206E14-023 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	1200	150		mg/Kg	10	7/1/2022 12:51:24 AM	68420
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	7/1/2022 12:51:24 AM	68420
Surr: DNOP	0	51.1-141	S	%Rec	10	7/1/2022 12:51:24 AM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 2:50:45 PM	68389
Surr: BFB	152	37.7-212		%Rec	1	6/29/2022 2:50:45 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2022 2:50:45 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 2:50:45 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 2:50:45 PM	68389
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2022 2:50:45 PM	68389
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	6/29/2022 2:50:45 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW6B
Project: SJ 27 5 69
Collection Date: 6/23/2022 11:20:00 AM
Lab ID: 2206E14-024 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/30/2022 5:48:14 PM	68420
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2022 5:48:14 PM	68420
Surr: DNOP	120	51.1-141		%Rec	1	6/30/2022 5:48:14 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2022 4:25:26 PM	68389
Surr: BFB	102	37.7-212		%Rec	1	6/29/2022 4:25:26 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 4:25:26 PM	68389
Toluene	ND	0.048		mg/Kg	1	6/29/2022 4:25:26 PM	68389
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2022 4:25:26 PM	68389
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2022 4:25:26 PM	68389
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/29/2022 4:25:26 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH12A
Project: SJ 27 5 69
Collection Date: 6/23/2022 10:50:00 AM
Lab ID: 2206E14-025 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	110	15		mg/Kg	1	6/30/2022 8:04:33 PM	68420
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2022 8:04:33 PM	68420
Surr: DNOP	116	51.1-141		%Rec	1	6/30/2022 8:04:33 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	6.7	4.8		mg/Kg	1	6/29/2022 4:49:02 PM	68389
Surr: BFB	192	37.7-212		%Rec	1	6/29/2022 4:49:02 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 4:49:02 PM	68389
Toluene	ND	0.048		mg/Kg	1	6/29/2022 4:49:02 PM	68389
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2022 4:49:02 PM	68389
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2022 4:49:02 PM	68389
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	6/29/2022 4:49:02 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH12B
Project: SJ 27 5 69
Collection Date: 6/23/2022 11:00:00 AM
Lab ID: 2206E14-026 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	14	14		mg/Kg	1	6/30/2022 8:28:28 PM	68420
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2022 8:28:28 PM	68420
Surr: DNOP	122	51.1-141		%Rec	1	6/30/2022 8:28:28 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2022 5:12:36 PM	68389
Surr: BFB	115	37.7-212		%Rec	1	6/29/2022 5:12:36 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 5:12:36 PM	68389
Toluene	ND	0.047		mg/Kg	1	6/29/2022 5:12:36 PM	68389
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2022 5:12:36 PM	68389
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2022 5:12:36 PM	68389
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	6/29/2022 5:12:36 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB1
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:30:00 PM
Lab ID: 2206E14-027 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	16	14		mg/Kg	1	6/30/2022 8:52:28 PM	68420
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2022 8:52:28 PM	68420
Surr: DNOP	142	51.1-141	S	%Rec	1	6/30/2022 8:52:28 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 5:36:21 PM	68389
Surr: BFB	102	37.7-212		%Rec	1	6/29/2022 5:36:21 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2022 5:36:21 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 5:36:21 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 5:36:21 PM	68389
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2022 5:36:21 PM	68389
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	6/29/2022 5:36:21 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB2
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:35:00 PM
Lab ID: 2206E14-028 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/30/2022 9:16:20 PM	68420
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2022 9:16:20 PM	68420
Surr: DNOP	130	51.1-141		%Rec	1	6/30/2022 9:16:20 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2022 6:00:03 PM	68389
Surr: BFB	100	37.7-212		%Rec	1	6/29/2022 6:00:03 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2022 6:00:03 PM	68389
Toluene	ND	0.050		mg/Kg	1	6/29/2022 6:00:03 PM	68389
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2022 6:00:03 PM	68389
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2022 6:00:03 PM	68389
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	6/29/2022 6:00:03 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB3
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:38:00 PM
Lab ID: 2206E14-029 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	23	14		mg/Kg	1	6/30/2022 9:40:21 PM	68420
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2022 9:40:21 PM	68420
Surr: DNOP	128	51.1-141		%Rec	1	6/30/2022 9:40:21 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 6:23:44 PM	68389
Surr: BFB	106	37.7-212		%Rec	1	6/29/2022 6:23:44 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 6:23:44 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 6:23:44 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 6:23:44 PM	68389
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2022 6:23:44 PM	68389
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	6/29/2022 6:23:44 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB4
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:42:00 PM
Lab ID: 2206E14-030 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	15	15		mg/Kg	1	6/30/2022 10:04:12 PM	68420
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2022 10:04:12 PM	68420
Surr: DNOP	114	51.1-141		%Rec	1	6/30/2022 10:04:12 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 6:47:22 PM	68389
Surr: BFB	101	37.7-212		%Rec	1	6/29/2022 6:47:22 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 6:47:22 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 6:47:22 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 6:47:22 PM	68389
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2022 6:47:22 PM	68389
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	6/29/2022 6:47:22 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB5
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:45:00 PM
Lab ID: 2206E14-031 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	35	15		mg/Kg	1	6/30/2022 10:28:04 PM	68420
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2022 10:28:04 PM	68420
Surr: DNOP	116	51.1-141		%Rec	1	6/30/2022 10:28:04 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2022 7:10:58 PM	68389
Surr: BFB	102	37.7-212		%Rec	1	6/29/2022 7:10:58 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 7:10:58 PM	68389
Toluene	ND	0.047		mg/Kg	1	6/29/2022 7:10:58 PM	68389
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2022 7:10:58 PM	68389
Xylenes, Total	ND	0.095		mg/Kg	1	6/29/2022 7:10:58 PM	68389
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	6/29/2022 7:10:58 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB6
Project: SJ 27 5 69
Collection Date: 6/23/2022 2:08:00 PM
Lab ID: 2206E14-032 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	33	15		mg/Kg	1	6/30/2022 10:51:56 PM	68420
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2022 10:51:56 PM	68420
Surr: DNOP	128	51.1-141		%Rec	1	6/30/2022 10:51:56 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2022 7:34:37 PM	68389
Surr: BFB	98.7	37.7-212		%Rec	1	6/29/2022 7:34:37 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 7:34:37 PM	68389
Toluene	ND	0.047		mg/Kg	1	6/29/2022 7:34:37 PM	68389
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2022 7:34:37 PM	68389
Xylenes, Total	ND	0.095		mg/Kg	1	6/29/2022 7:34:37 PM	68389
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	6/29/2022 7:34:37 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB7
Project: SJ 27 5 69
Collection Date: 6/23/2022 2:05:00 PM
Lab ID: 2206E14-033 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/30/2022 11:15:49 PM	68420
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2022 11:15:49 PM	68420
Surr: DNOP	124	51.1-141		%Rec	1	6/30/2022 11:15:49 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2022 7:58:13 PM	68389
Surr: BFB	97.1	37.7-212		%Rec	1	6/29/2022 7:58:13 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/29/2022 7:58:13 PM	68389
Toluene	ND	0.047		mg/Kg	1	6/29/2022 7:58:13 PM	68389
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2022 7:58:13 PM	68389
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2022 7:58:13 PM	68389
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	6/29/2022 7:58:13 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB8
Project: SJ 27 5 69
Collection Date: 6/23/2022 2:02:00 PM
Lab ID: 2206E14-034 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	98	15		mg/Kg	1	6/30/2022 11:39:45 PM	68420
Motor Oil Range Organics (MRO)	180	50		mg/Kg	1	6/30/2022 11:39:45 PM	68420
Surr: DNOP	122	51.1-141		%Rec	1	6/30/2022 11:39:45 PM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 9:08:44 PM	68389
Surr: BFB	99.3	37.7-212		%Rec	1	6/29/2022 9:08:44 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2022 9:08:44 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 9:08:44 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 9:08:44 PM	68389
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2022 9:08:44 PM	68389
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	6/29/2022 9:08:44 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB9
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:58:00 PM
Lab ID: 2206E14-035 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	90	15		mg/Kg	1	7/1/2022 12:03:40 AM	68420
Motor Oil Range Organics (MRO)	140	50		mg/Kg	1	7/1/2022 12:03:40 AM	68420
Surr: DNOP	121	51.1-141		%Rec	1	7/1/2022 12:03:40 AM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 9:32:13 PM	68389
Surr: BFB	97.7	37.7-212		%Rec	1	6/29/2022 9:32:13 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 9:32:13 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 9:32:13 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 9:32:13 PM	68389
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2022 9:32:13 PM	68389
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	6/29/2022 9:32:13 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB10
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:55:00 PM
Lab ID: 2206E14-036 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	91	15		mg/Kg	1	7/1/2022 12:27:31 AM	68420
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	7/1/2022 12:27:31 AM	68420
Surr: DNOP	111	51.1-141		%Rec	1	7/1/2022 12:27:31 AM	68420
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 9:55:39 PM	68389
Surr: BFB	99.5	37.7-212		%Rec	1	6/29/2022 9:55:39 PM	68389
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 9:55:39 PM	68389
Toluene	ND	0.049		mg/Kg	1	6/29/2022 9:55:39 PM	68389
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 9:55:39 PM	68389
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2022 9:55:39 PM	68389
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/29/2022 9:55:39 PM	68389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB11
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:52:00 PM
Lab ID: 2206E14-037 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	20	15		mg/Kg	1	6/30/2022 4:49:26 AM	68419
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/30/2022 4:49:26 AM	68419
Surr: DNOP	95.3	51.1-141		%Rec	1	6/30/2022 4:49:26 AM	68419
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2022 10:44:00 AM	68412
Surr: BFB	89.9	37.7-212		%Rec	1	6/29/2022 10:44:00 AM	68412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 10:44:00 AM	68412
Toluene	ND	0.048		mg/Kg	1	6/29/2022 10:44:00 AM	68412
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2022 10:44:00 AM	68412
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2022 10:44:00 AM	68412
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/29/2022 10:44:00 AM	68412

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2206E14**
Date Reported: **7/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: OB12
Project: SJ 27 5 69
Collection Date: 6/23/2022 1:48:00 PM
Lab ID: 2206E14-038 **Matrix:** SOIL **Received Date:** 6/25/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	18	14		mg/Kg	1	6/30/2022 5:30:39 AM	68419
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/30/2022 5:30:39 AM	68419
Surr: DNOP	102	51.1-141		%Rec	1	6/30/2022 5:30:39 AM	68419
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2022 11:43:00 AM	68412
Surr: BFB	87.8	37.7-212		%Rec	1	6/29/2022 11:43:00 AM	68412
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	6/29/2022 11:43:00 AM	68412
Toluene	ND	0.049		mg/Kg	1	6/29/2022 11:43:00 AM	68412
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2022 11:43:00 AM	68412
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2022 11:43:00 AM	68412
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	6/29/2022 11:43:00 AM	68412

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **MB-68419**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68419**	RunNo: **89119**
Prep Date: **6/28/2022**	Analysis Date: **6/30/2022**	SeqNo: **3168439** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	51.1	141			

Sample ID: **LCS-68419**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68419**	RunNo: **89119**
Prep Date: **6/28/2022**	Analysis Date: **6/30/2022**	SeqNo: **3168440** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	15	50.00	0	80.6	64.4	127			
Surr: DNOP	4.7		5.000		93.9	51.1	141			

Sample ID: **2206E14-037AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **OB11**	Batch ID: **68419**	RunNo: **89119**
Prep Date: **6/28/2022**	Analysis Date: **6/30/2022**	SeqNo: **3168442** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	14	47.30	20.28	92.1	36.1	154			
Surr: DNOP	4.4		4.730		93.9	51.1	141			

Sample ID: **2206E14-037AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **OB11**	Batch ID: **68419**	RunNo: **89119**
Prep Date: **6/28/2022**	Analysis Date: **6/30/2022**	SeqNo: **3168443** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	14	47.30	20.28	57.4	36.1	154	29.5	33.9	
Surr: DNOP	5.3		4.730		112	51.1	141	0	0	

Sample ID: **MB-68418**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68418**	RunNo: **89166**
Prep Date: **6/28/2022**	Analysis Date: **7/1/2022**	SeqNo: **3169229** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.3	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **MB-68456**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **68456**	RunNo: **89166**							
Prep Date: **6/29/2022**	Analysis Date: **6/30/2022**	SeqNo: **3169231**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.6	51.1	141			

Sample ID: **LCS-68418**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **68418**	RunNo: **89166**							
Prep Date: **6/28/2022**	Analysis Date: **7/1/2022**	SeqNo: **3169232**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	15	50.00	0	79.9	64.4	127			
Surr: DNOP	4.9		5.000		97.3	51.1	141			

Sample ID: **LCS-68456**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **68456**	RunNo: **89166**							
Prep Date: **6/29/2022**	Analysis Date: **6/30/2022**	SeqNo: **3169234**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	51.1	141			

Sample ID: **MB-68420**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **68420**	RunNo: **89114**							
Prep Date: **6/29/2022**	Analysis Date: **6/30/2022**	SeqNo: **3171662**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	51.1	141			

Sample ID: **LCS-68420**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **68420**	RunNo: **89114**							
Prep Date: **6/29/2022**	Analysis Date: **6/30/2022**	SeqNo: **3171663**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	15	50.00	0	114	64.4	127			
Surr: DNOP	5.9		5.000		118	51.1	141			

Sample ID: **2206E14-017AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **TS17**	Batch ID: **68420**	RunNo: **89114**							
Prep Date: **6/29/2022**	Analysis Date: **6/30/2022**	SeqNo: **3171665**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	380	15	49.12	340.8	87.9	36.1	154			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **2206E14-017AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TS17**	Batch ID: **68420**	RunNo: **89114**
Prep Date: **6/29/2022**	Analysis Date: **6/30/2022**	SeqNo: **3171665** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		4.912		120	51.1	141			

Sample ID: **2206E14-017AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TS17**	Batch ID: **68420**	RunNo: **89114**
Prep Date: **6/29/2022**	Analysis Date: **6/30/2022**	SeqNo: **3171666** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	430	15	49.46	340.8	184	36.1	154	11.8	33.9	S
Surr: DNOP	5.8		4.946		118	51.1	141	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-68388**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165078** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	72.3	137			
Surr: BFB	2000		1000		195	37.7	212			

Sample ID: **2206e14-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TS1**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165085** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	49	24	24.18	22.68	108	70	130			
Surr: BFB	7600		4836		158	37.7	212			

Sample ID: **2206e14-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TS1**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165086** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	46	25	24.61	22.68	96.0	70	130	5.12	20	
Surr: BFB	7400		4921		150	37.7	212	0	0	

Sample ID: **MB-68388**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165150** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.0	37.7	212			

Sample ID: **mb-68389**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167005** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Sample ID: **lcs-68389**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167006** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-68389**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167006** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	72.3	137			
Surr: BFB	2100		1000		212	37.7	212			

Sample ID: **2206e14-017ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TS17**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	79	24	23.67	29.14	209	70	130			S
Surr: BFB	8900		4735		187	37.7	212			

Sample ID: **2206e14-017amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TS17**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167009** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	61	24	23.67	29.14	133	70	130	25.8	20	RS
Surr: BFB	8300		4735		175	37.7	212	0	0	

Sample ID: **lcs-68412**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167128** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: **mb-68412**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167131** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.0	37.7	212			

Sample ID: **2206e14-037ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **OB11**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167134** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **2206e14-037ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **OB11**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167134** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.08	0	115	70	130			
Surr: BFB	2000		963.4		204	37.7	212			

Sample ID: **2206e14-037amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **OB11**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167135** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.32	0	110	70	130	3.45	20	
Surr: BFB	2000		972.8		204	37.7	212	0	0	

Sample ID: **lcs-68413**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68413**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167155** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1700		1000		171	37.7	212			

Sample ID: **mb-68413**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68413**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167156** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		87.8	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **LCS-68388**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165120** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.2	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

Sample ID: **2206e14-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TS2**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165127** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.12	0.9891	0	96.6	68.8	120			
Toluene	0.99	0.25	0.9891	0	100	73.6	124			
Ethylbenzene	1.1	0.25	0.9891	0.07438	104	72.7	129			
Xylenes, Total	3.1	0.49	2.967	0	106	75.7	126			
Surr: 4-Bromofluorobenzene	4.8		4.946		96.9	70	130			

Sample ID: **2206e14-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TS2**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165128** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.12	0.9643	0	99.7	68.8	120	0.630	20	
Toluene	1.0	0.24	0.9643	0	107	73.6	124	4.09	20	
Ethylbenzene	1.2	0.24	0.9643	0.07438	114	72.7	129	6.79	20	
Xylenes, Total	3.3	0.48	2.893	0	115	75.7	126	6.25	20	
Surr: 4-Bromofluorobenzene	4.9		4.822		102	70	130	0	0	

Sample ID: **MB-68388**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68388**	RunNo: **89080**
Prep Date: **6/27/2022**	Analysis Date: **6/28/2022**	SeqNo: **3165152** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **mb-68389**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167053** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.5	70	130			

Sample ID: **LCS-68389**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167054** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.6	80	120			
Toluene	0.89	0.050	1.000	0	88.7	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.8	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	70	130			

Sample ID: **2206e14-018ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TS18**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167057** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.12	0.9804	0	70.4	68.8	120			
Toluene	0.75	0.25	0.9804	0.06177	70.2	73.6	124			S
Ethylbenzene	0.77	0.25	0.9804	0.07831	71.0	72.7	129			S
Xylenes, Total	2.3	0.49	2.941	0.09776	75.2	75.7	126			S
Surr: 4-Bromofluorobenzene	4.9		4.902		101	70	130			

Sample ID: **2206e14-018amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TS18**	Batch ID: **68389**	RunNo: **89130**
Prep Date: **6/27/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167058** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.12	0.9709	0	79.1	68.8	120	10.7	20	
Toluene	0.83	0.24	0.9709	0.06177	79.1	73.6	124	10.1	20	
Ethylbenzene	0.86	0.24	0.9709	0.07831	80.5	72.7	129	10.5	20	
Xylenes, Total	2.6	0.49	2.913	0.09776	85.8	75.7	126	11.7	20	
Surr: 4-Bromofluorobenzene	5.0		4.854		102	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-68412**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.4	70	130			

Sample ID: **mb-68412**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	70	130			

Sample ID: **2206e14-038ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **OB12**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167190** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9901	0	92.8	68.8	120			
Toluene	0.95	0.050	0.9901	0	96.0	73.6	124			
Ethylbenzene	0.96	0.050	0.9901	0	96.7	72.7	129			
Xylenes, Total	2.8	0.099	2.970	0	95.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.83		0.9901		84.1	70	130			

Sample ID: **2206e14-038amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **OB12**	Batch ID: **68412**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167191** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9823	0	91.9	68.8	120	1.74	20	
Toluene	0.93	0.049	0.9823	0	94.9	73.6	124	1.85	20	
Ethylbenzene	0.93	0.049	0.9823	0	95.0	72.7	129	2.53	20	
Xylenes, Total	2.8	0.098	2.947	0	94.3	75.7	126	2.33	20	
Surr: 4-Bromofluorobenzene	0.83		0.9823		84.6	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E14**

07-Jul-22

Client: Timberwolf Environmental

Project: SJ 27 5 69

Sample ID: **lcs-68413**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68413**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167210** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

Sample ID: **mb-68413**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68413**	RunNo: **89131**
Prep Date: **6/28/2022**	Analysis Date: **6/29/2022**	SeqNo: **3167211** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		83.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Timberwolf Environmental Work Order Number: 2206E14 RcptNo: 1

Received By: **Sean Livingston** 6/25/2022 9:30:00 AM Sean Livingston

Completed By: **Sean Livingston** 6/25/2022 9:49:02 AM Sean Livingston

Reviewed By: TML 6/25/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑

    # of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
    Adjusted? _____
    Checked by: Sec 6/25/22

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

    Person Notified: _____ Date: _____
    By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
    Regarding: _____
    Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			
2	1.3	Good	Yes			

Chain-of-Custody Record

Client: Timberwolf

Mailing Address:

Phone #: 979 3242139

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5 day
☒ Standard ☐ Rush

Project Name: SJ 27-5 #69

Project #: 180034

Project Manager:

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 0.9 ± 0 = 0.9 (°C)
1.3 ± 0 = 1.3°C

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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2206E14	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/23	1330	S	TS1	(1)4oz	Cool	001	✓	✓								
	1315		TS2			002	✓	✓								
	1215		TS3			003	✓	✓								
	1208		TS4			004	✓	✓								
	1320		TS5			005	✓	✓								
	1305		TS6			006	✓	✓								
	1230		TS7			007	✓	✓								
	1200		TS8			008	✓	✓								
	1140		TS9			009	✓	✓								
	1255		TS10			010	✓	✓								
	1240	↓	TS11			011	✓	✓								
↓	~~1305~~	1150	TS12			012	✓	✓								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/23/22	1925				6/23/22	1925
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/24/22	1807			Courier	6/25/22	9:30

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Timberwolf

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5 days
☒ Standard ☐ Rush

Project Name: SJ-27-5464

Project #: 180034

Project Manager:

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 0.9 +0 = 0.9 (°C)
1.3 +0 = 1.3

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Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/23	S	1130	TS13	(1) 4oz	Cool	013	✓	✓								
		1435	TS14			014	✓	✓								
		1445	TS15			015	✓	✓								
		1455	TS16			016	✓	✓								
		1305	TS 17			017	✓	✓								
		1310	TS18			018	✓	✓								
		1315	TS 19			019	✓	✓								
		1320	TS 20			020	✓	✓								
		1335	TS21			021	✓	✓								
		1300	TS 22			022	✓	✓								
		1110	SW 6A			023	✓	✓								
↓	↓	1120	SW 6B			024	✓	✓								

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/23/22	1925				6/23	1925
6/24/22	1802				6/25/22	9:30

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Timbrwolf

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5 day
☒ Standard ☐ Rush

Project Name: SJ 27-5 #69

Project #: 180034

Project Manager:

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 0.9 ±0 = 0.9 (°C)

1.3 ±0 = 1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/23	1050	S	BH12A			025	✓	✓								
	1100		BH12B			026	✓	✓								
	1330		OB1			027	✓	✓								
	1335		OB2			028	✓	✓								
	1338		OB3			029	✓	✓								
	1342		OB4			030	✓	✓								
	1345		OB5			031	✓	✓								
	1408		OB6			032	✓	✓								
	1405		OB7			033	✓	✓								
	1402		OB8			034	✓	✓								
	1358		OB9			035	✓	✓								
↓	1355	↓	OB10			036	✓	✓								

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/23/22	1925				6/23/22	1925
6/24/22	1802			courier	6/25/22	9:30

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Timberwolf

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5 days
☒ Standard ☐ Rush

Project Name: SJ 27-5 #68

Project #: 180034

Project Manager:

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 0.9±0=0.9 (°C)

1.3±0=1.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/23	1352	S	OB11			037	✓	✓								
6/23	1348	S	OB12			038	✓	✓								
			end of chain													

Remarks:

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/23/22	1925				6/23/22	1925
6/24/22	1802		SKC courier		6/25/22	9:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Website: www.hallenvironmental.com

October 28, 2022

Samantha Grabert
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX:

RE: San Juan 27 5 Unit 69 OrderNo.: 2210607

Dear Samantha Grabert:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/13/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **2210607**
Date: **10/28/2022**

CLIENT: HILCORP ENERGY
Project: San Juan 27 5 Unit 69

Analytical Notes Regarding EPA Method 8015D DRO/MRO:
Sample TS 23 was received at the correct temperature. The DRO/MRO analysis is reported from the sample jar that was left at room temperature overnight at the lab.

Analytical Report
Lab Order **2210607**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: TS12
Project: San Juan 27 5 Unit 69
Collection Date: 10/11/2022 9:14:00 AM
Lab ID: 2210607-001 **Matrix:** SOIL
Received Date: 10/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	680	150		mg/Kg	10	10/16/2022 7:12:54 AM
Motor Oil Range Organics (MRO)	840	490		mg/Kg	10	10/16/2022 7:12:54 AM
Surr: DNOP	0	21-129	S	%Rec	10	10/16/2022 7:12:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2022 2:51:00 AM
Surr: BFB	104	37.7-212		%Rec	1	10/15/2022 2:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/15/2022 2:51:00 AM
Toluene	ND	0.049		mg/Kg	1	10/15/2022 2:51:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2022 2:51:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/15/2022 2:51:00 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/15/2022 2:51:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210607**
Date Reported: **10/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: TS23
Project: San Juan 27 5 Unit 69
Collection Date: 10/11/2022 9:27:00 AM
Lab ID: 2210607-002 **Matrix:** SOIL **Received Date:** 10/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/20/2022 9:39:48 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/20/2022 9:39:48 AM
Surr: DNOP	95.3	21-129		%Rec	1	10/20/2022 9:39:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/15/2022 3:11:00 AM
Surr: BFB	99.5	37.7-212		%Rec	1	10/15/2022 3:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	10/15/2022 3:11:00 AM
Toluene	ND	0.048		mg/Kg	1	10/15/2022 3:11:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/15/2022 3:11:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/15/2022 3:11:00 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/15/2022 3:11:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210607**

28-Oct-22

Client: HILCORP ENERGY

Project: San Juan 27 5 Unit 69

Sample ID: **MB-70827**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70827**	RunNo: **91843**
Prep Date: **10/14/2022**	Analysis Date: **10/15/2022**	SeqNo: **3293431** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		105	21	129			

Sample ID: **LCS-70827**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70827**	RunNo: **91843**
Prep Date: **10/14/2022**	Analysis Date: **10/15/2022**	SeqNo: **3293432** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127			
Surr: DNOP	5.4		5.000		108	21	129			

Sample ID: **MB-70926**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70926**	RunNo: **91947**
Prep Date: **10/19/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298585** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.9	21	129			

Sample ID: **LCS-70926**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70926**	RunNo: **91947**
Prep Date: **10/19/2022**	Analysis Date: **10/20/2022**	SeqNo: **3298587** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	15	50.00	0	103	64.4	127			
Surr: DNOP	5.3		5.000		107	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210607**

28-Oct-22

Client: HILCORP ENERGY

Project: San Juan 27 5 Unit 69

Sample ID: **lcs-70800**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **70800**	RunNo: **91820**							
Prep Date: **10/13/2022**	Analysis Date: **10/14/2022**	SeqNo: **3292094**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.3	72.3	137			
Surr: BFB	2200		1000		221	37.7	212			S

Sample ID: **mb-70800**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **70800**	RunNo: **91820**							
Prep Date: **10/13/2022**	Analysis Date: **10/14/2022**	SeqNo: **3292095**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.8	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210607**

28-Oct-22

Client: HILCORP ENERGY

Project: San Juan 27 5 Unit 69

Sample ID: **lcs-70800**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70800**	RunNo: **91820**
Prep Date: **10/13/2022**	Analysis Date: **10/14/2022**	SeqNo: **3292147** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	113	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: **mb-70800**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70800**	RunNo: **91820**
Prep Date: **10/13/2022**	Analysis Date: **10/14/2022**	SeqNo: **3292148** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Hilcorp Energy | Work Order Number: 2210607 | RcptNo: 1

Received By: **Juan Rojas** 10/13/2022 7:15:00 AM

Completed By: **Tracy Casarrubias** 10/13/2022 8:18:00 AM

Reviewed By: KDL 10.13.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JA 10/13/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

Chain-of-Custody Record

Client: Hilcorp Energy

Mailing Address: 382 CR 3100 Aztec 87410

Phone #: 505 599 3900

email or Fax#: Samantha.Grabert@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush 5 day

Project Name: San Juan 27-5 Unit 69

Project #:

Project Manager: Samantha Grabert

Sampler: Cardoza

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.9-0.1=1.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210607	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/11/22	9:14	Soil	TS 12	4oz glass/1	Cold	001	X	X								
10/11/22	9:27	Soil	TS 23	4oz glass/1	Cold	002	X	X								

Remarks:

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/12/22	1207				10/12/22	1207
10/12/22	1800			courier	10/13/22	7:15

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Analytical Report
Lab Order **2208800**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: BH 13
Project: SJ 27-5 69
Collection Date: 8/11/2022 10:30:00 AM
Lab ID: 2208800-001 **Matrix:** SOIL **Received Date:** 8/12/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	79	15		mg/Kg	1	8/12/2022 2:41:29 PM	69457
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	8/12/2022 2:41:29 PM	69457
Surr: DNOP	109	21-129		%Rec	1	8/12/2022 2:41:29 PM	69457
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/12/2022 10:59:32 AM	G90220
Surr: BFB	110	37.7-212		%Rec	1	8/12/2022 10:59:32 AM	G90220
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	8/12/2022 10:59:32 AM	B90220
Toluene	ND	0.035		mg/Kg	1	8/12/2022 10:59:32 AM	B90220
Ethylbenzene	ND	0.035		mg/Kg	1	8/12/2022 10:59:32 AM	B90220
Xylenes, Total	ND	0.069		mg/Kg	1	8/12/2022 10:59:32 AM	B90220
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/12/2022 10:59:32 AM	B90220

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2208800**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW6A+
Project: SJ 27-5 69
Collection Date: 8/11/2022 10:35:00 AM
Lab ID: 2208800-002 **Matrix:** SOIL **Received Date:** 8/12/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	180	15		mg/Kg	1	8/12/2022 3:09:56 PM	69457
Motor Oil Range Organics (MRO)	280	49		mg/Kg	1	8/12/2022 3:09:56 PM	69457
Surr: DNOP	111	21-129		%Rec	1	8/12/2022 3:09:56 PM	69457
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/12/2022 11:23:14 AM	G90220
Surr: BFB	111	37.7-212		%Rec	1	8/12/2022 11:23:14 AM	G90220
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.019		mg/Kg	1	8/12/2022 11:23:14 AM	B90220
Toluene	ND	0.039		mg/Kg	1	8/12/2022 11:23:14 AM	B90220
Ethylbenzene	ND	0.039		mg/Kg	1	8/12/2022 11:23:14 AM	B90220
Xylenes, Total	ND	0.077		mg/Kg	1	8/12/2022 11:23:14 AM	B90220
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/12/2022 11:23:14 AM	B90220

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2208800**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Timberwolf Environmental
Client Sample ID: SW6C
Project: SJ 27-5 69
Collection Date: 8/11/2022 10:40:00 AM
Lab ID: 2208800-003 **Matrix:** SOIL **Received Date:** 8/12/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	250	14		mg/Kg	1	8/12/2022 3:37:52 PM	69457
Motor Oil Range Organics (MRO)	310	46		mg/Kg	1	8/12/2022 3:37:52 PM	69457
Surr: DNOP	111	21-129		%Rec	1	8/12/2022 3:37:52 PM	69457
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/12/2022 11:46:53 AM	G90220
Surr: BFB	112	37.7-212		%Rec	1	8/12/2022 11:46:53 AM	G90220
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.017		mg/Kg	1	8/12/2022 11:46:53 AM	B90220
Toluene	ND	0.033		mg/Kg	1	8/12/2022 11:46:53 AM	B90220
Ethylbenzene	ND	0.033		mg/Kg	1	8/12/2022 11:46:53 AM	B90220
Xylenes, Total	ND	0.067		mg/Kg	1	8/12/2022 11:46:53 AM	B90220
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/12/2022 11:46:53 AM	B90220

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 15, 2022

Samantha Grabert
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX:

RE: SJ 27 5 69 OrderNo.: 2212312

Dear Samantha Grabert:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/7/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2212312**
Date Reported: **12/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: TS-12
Project: SJ 27 5 69
Collection Date: 12/6/2022 10:40:00 AM
Lab ID: 2212312-001 **Matrix:** SOIL **Received Date:** 12/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	580	64		mg/Kg	5	12/12/2022 7:25:21 PM
Motor Oil Range Organics (MRO)	450	210		mg/Kg	5	12/12/2022 7:25:21 PM
Surr: DNOP	101	21-129		%Rec	5	12/12/2022 7:25:21 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	12/9/2022 5:25:02 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2022 5:25:02 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2022 5:25:02 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2022 5:25:02 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	12/9/2022 5:25:02 PM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	12/9/2022 5:25:02 PM
Surr: Dibromofluoromethane	113	70-130		%Rec	1	12/9/2022 5:25:02 PM
Surr: Toluene-d8	108	70-130		%Rec	1	12/9/2022 5:25:02 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2022 5:25:02 PM
Surr: BFB	94.0	70-130		%Rec	1	12/9/2022 5:25:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212312**

15-Dec-22

Client: HILCORP ENERGY

Project: SJ 27 5 69

Sample ID: **MB-71989**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71989**	RunNo: **93210**
Prep Date: **12/9/2022**	Analysis Date: **12/12/2022**	SeqNo: **3361735** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	21	129			

Sample ID: **LCS-71989**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71989**	RunNo: **93210**
Prep Date: **12/9/2022**	Analysis Date: **12/12/2022**	SeqNo: **3361736** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	94.3	64.4	127			
Surr: DNOP	5.0		5.000		101	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212312**

15-Dec-22

Client: HILCORP ENERGY

Project: SJ 27 5 69

Sample ID: **LCS-71962**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **71962**	RunNo: **93195**
Prep Date: **12/8/2022**	Analysis Date: **12/9/2022**	SeqNo: **3358165** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.2	0.050	1.000	0	116	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.8	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.3	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.54		0.5000		107	70	130			

Sample ID: **mb-71962**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **71962**	RunNo: **93195**
Prep Date: **12/8/2022**	Analysis Date: **12/9/2022**	SeqNo: **3358166** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.55		0.5000		110	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212312**

15-Dec-22

Client: HILCORP ENERGY

Project: SJ 27 5 69

Sample ID: **2212312-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **TS-12**	Batch ID: **71962**	RunNo: **93195**
Prep Date: **12/8/2022**	Analysis Date: **12/9/2022**	SeqNo: **3358123** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.34	2.879	110	65.9	123			
Surr: BFB	470		486.9		96.6	70	130			

Sample ID: **2212312-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **TS-12**	Batch ID: **71962**	RunNo: **93195**
Prep Date: **12/8/2022**	Analysis Date: **12/9/2022**	SeqNo: **3358124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.30	2.879	110	65.9	123	0.490	20	
Surr: BFB	480		485.9		98.3	70	130	0	0	

Sample ID: **LCS-71962**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71962**	RunNo: **93195**
Prep Date: **12/8/2022**	Analysis Date: **12/9/2022**	SeqNo: **3358133** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	490		500.0		97.3	70	130			

Sample ID: **mb-71962**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **71962**	RunNo: **93195**
Prep Date: **12/8/2022**	Analysis Date: **12/9/2022**	SeqNo: **3358134** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	460		500.0		91.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY Work Order Number: 2212312 RcptNo: 1

Received By: Juan Rojas 12/7/2022 7:10:00 AM

Completed By: Tracy Casarrubias 12/7/2022 9:08:57 AM

Reviewed By: JA 12-7-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPA 12.07.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard (5day) ☐ Rush

Project Name: SJ 27-5 #69

Project #:

Project Manager: Samantha Grabert

Sampler: Brandon Sinclair

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 0.8+0.1=0.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212312	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12-6	1040	soil	TS-12	4oz jar	cool	001	✓	✓								

Analysis Request

Relinquished by:	Date	Time	Received by:	Via:	Date	Time
	12-6	1650			12/6/22	1650
	12/6/22	1710			12/7/22	710

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Bills of Lading – EnviroTech

envirotech

Bill of Lading

MANIFEST # 72958
GENERATOR Hilcorp
POINT OF ORIGIN SJ27-5-69
TRANSPORTER CF&M
DATE 05.18.22 JOB # 17051-0170

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF2-5	Cont Soil	K34	20	-	-	-	0845	0820	
2	"	" "	K34	20	-	-	-	1076	0825	
3	"	" "	J34	20	-	-	-	0403	0827	
4	"	" "	J34	20	-	-	-	9905	0830	
5	"	" "	I34	20	-	-	-	0845	1240	
6	"	" "	I34	20	-	-	-	1076	11:52	
7	"	" "	H34	20	-	-	-	9905	1200	
8	"	" "	H34	20	-	-	-	0403	12:02	
9	"	" "	G34	20	-	-	-	1076	3:50	
10	"	" "	G34	20	-	-	-	9905	1600	

RESULTS			LANDFARM EMPLOYEE	NOTES
4281	CHLORIDE TEST	3	Gary Robinson 200 Gw	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST		**By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.**	
PASS	PAINT FILTER TEST	3		

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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CF#m 0845

envirotech

BOL# 72958

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-18-22 TIME 0820 Attach test strip here

CUSTOMER Hilcorp

SITE SJ 27-5-69

DRIVER JH Jaramillo

SAMPLE Soil Straight X With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 0820 Time completed 0832

PASS YES Y NO _____

SAMPLER/ANALYST Corey Rob

5796 U.S. Highway 64 - Farmington, NM 87401 - Ph (505) 632-0615 Fx (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

BOL# 72958

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-18-22 TIME 1240

CUSTOMER Hilcorp

SITE SJ-27-5-69

DRIVER [signature]

SAMPLE Soil Straight X With Dirt _____

CHLORIDE TEST 281 mg/Kg

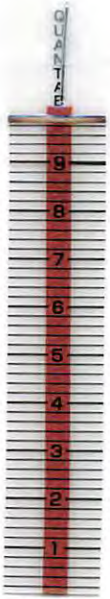
ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1240 Time completed 1250

PASS YES Y NO _____

SAMPLER/ANALYST Cory Robinson

Attach test strip here



5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

BOL# 72958

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-18-22 TIME 1600

CUSTOMER Hilcorp

SITE SJ 27-5 69

DRIVER Roger Tidwell

SAMPLE Soil Straight _____ With Dirt _____

CHLORIDE TEST -281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1600 Time completed 1610

PASS YES X NO _____

SAMPLER/ANALYST Cory Robinson

Attach test strip here

5796 US Hwy 64 - Farmington, NM 87401 (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

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Bill of Lading

MANIFEST # 72964
GENERATOR HILCORP
POINT OF ORIGIN SJ 27-5-69
TRANSPORTER ACC
DATE 05-18-22 JOB # 17051-0170

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5	Cont Soil	I28	20	-	-	-	18	14:10	Kelley Lowe
2	LF 2-5	"	I28	20	-	-	-	20	1455	
				40						

RESULTS			LANDFARM EMPLOYEE	NOTES
<281	CHLORIDE TEST	1		
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
PASS	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

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envirotech BOL# 72964

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 5-18-22 TIME 14:10

CUSTOMER Hilcorp

SITE SJ 27-5-65

DRIVER Kelley Lowe

SAMPLE (Soil) Straight X With Dirt ____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES ✓ NO ____

PAINT FILTER TEST Time started 1410 Time completed 1420

PASS YES ✓ NO ____

SAMPLER/ANALYST Cory Robinson

Attach test strip here

5796 US Hwy 64 - Farmington, NM 87401 (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 72973
GENERATOR Hilcorp
POINT OF ORIGIN SJ 27-5 69
TRANSPORTER CF&M
DATE 05-19-22 JOB # 17051-0170

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF2-5	Cont Soil	F34	20	—	—	—	0403	0737	
2	"	"	F34	20	—	—	—	0845	0806	
3	"	"	F34	20	—	—	—	9905	0812	
4	"	"	F34	20	—	—	—	1076	0815	
5	"	"	E34	20	—	—	—	0403	1108	
6	"	"	E34	20	—	—	—	0845	1115	
7	"	"	E34	20	—	—	—	9905	1125	
8	"	"	C34	20	—	—	—	1076	1200	
9	"	"	C34	20	—	—	—	0403	0427	
10	"	"	C34	20	—	—	—	0845	[illegible]	

RESULTS			LANDFARM EMPLOYEE	NOTES
1281	CHLORIDE TEST	3	Cory Robinson GWL	1428
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST		**By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.**	
PASS	PAINT FILTER TEST	3		

Generator Onsite Contact _____ Phone _____

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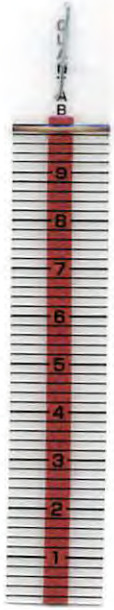
BOL# 72973

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-19-22 TIME 0737

Attach test strip here



CUSTOMER Hilcorp

SITE SJ 27-5-69

DRIVER Roger Engley

SAMPLE Soil Straight X With Dirt _____

CHLORIDE TEST -281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 0737 Time completed 050

PASS YES X NO _____

SAMPLER/ANALYST Cory Robinson

5796 US Hwy 64 - Farmington, NM 87401 (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech BOL# 72973

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-19-22 TIME 1108

CUSTOMER Hilcorp

SITE SJ 27-5 69

DRIVER

SAMPLE (Soil) Straight X With Dirt

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO

PAINT FILTER TEST Time started 1108 Time completed 1120

PASS YES X NO

SAMPLER/ANALYST Gary Robinson

Attach test strip here

5796 US Highway 64 Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

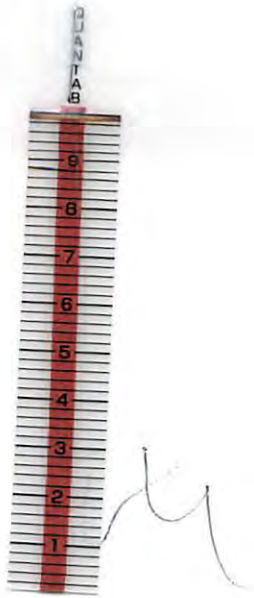
envirotech

BOL# 72973

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-19-22 TIME _____

Attach test strip here



CUSTOMER Hilcorp

SITE SJ 27S-69

DRIVER Jeff Jamille

SAMPLE Soil Straight X With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1428 Time completed 1439

PASS YES X NO _____

SAMPLER/ANALYST Cory Robinson

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

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Bill of Lading

MANIFEST # 72975
GENERATOR Hilcorp
POINT OF ORIGIN SJ 27-5-69
TRANSPORTER ACE
DATE 05-19-22 JOB # 17051-0170

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF2-5	Cont+Soil	E34	20	—	—	—	18	0830	Kelley Lowe
2	"	" "	E34	20	—	—	—	20	0855	[signature]
3	"	" "	D34	20	—	—	—	18	1125	Kelley Lowe
4	"	" "	D34	20	—	—	—	20	1228	[signature]
5	"	" "	C34	20	—	—	—	18	1435	Kelley Lowe
				100						

RESULTS			LANDFARM EMPLOYEE	NOTES
4281	CHLORIDE TEST	2	Cory Robinson Cw	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST		**By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.**	
pass	PAINT FILTER TEST	2		

Generator Onsite Contact _____ Phone _____

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BOL# 72975

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-19-22 TIME 0830

Attach test strip here

CUSTOMER Hilcorp

SITE S.J. 27-5. 69

DRIVER Kelley Lowe

SAMPLE (Soil) Straight X With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 0830 Time completed 0842

PASS YES X NO _____

SAMPLER/ANALYST Cory Robinson

5796 US Hwy 64 - Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

BOL# 72975

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-19-22 TIME 1435

Attach test strip here

CUSTOMER Hilcorp

SITE SJ27-5-69

DRIVER Kelley Lowe

SAMPLE (Soil) Straight X With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES _____ NO _____

PAINT FILTER TEST Time started 1435 Time completed 1448

PASS YES _____ NO _____

SAMPLER/ANALYST Cory Robinson

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 72987
GENERATOR Hilcorp
POINT OF ORIGIN SJ.27-5-69
TRANSPORTER CF&M
DATE 05.19.22 JOB # 17051-0170

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF2.5	Cont Soil	B34	20	-	-	-	9905	1438	
2	"	"	"	B34	20/40	-	-	-	1076	1555

RESULTS			LANDFARM EMPLOYEE	NOTES
<287	CHLORIDE TEST	1		
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

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envirotech

BOL# 72987

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-19-22 TIME 1438

Attach test strip here

CUSTOMER Hilcorp

SITE SJ 27-5 69

DRIVER [signature]

SAMPLE (Soil) Straight X With Dirt _____

CHLORIDE TEST 287 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1438 Time completed 1450

PASS YES Y NO _____

SAMPLER/ANALYST Cory Robinson

envirotech

Bill of Lading

MANIFEST # 72997
GENERATOR Hilcorp
POINT OF ORIGIN SJ 27-5 69
TRANSPORTER ACE
DATE 05.20.22 JOB # 17051-0170

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF2.5	Const Soil	C34	20	–	–	–	18	0930	Kelley Lowe
2	"	"	C34	20 / 40	–	–	–	18	1305	Kelley Lowe

RESULTS		
2281	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE: Gary Robinson GWL

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

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Generator Onsite Contact _____ Phone _____

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envirotech

BOL# 72997

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05.20.22 TIME 0930

Attach test strip here

CUSTOMER Hilcorp

SITE SJ 27-5-69

DRIVER Kelly Lowe

SAMPLE (Soil) Straight + With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 0930 Time completed 0940

PASS YES Y NO _____

SAMPLER/ANALYST Cory Robinson

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 73000
GENERATOR Hilcorp
POINT OF ORIGIN SJ27-5 #69
TRANSPORTER C F & M
DATE 05-20-22 JOB # 17051-0170

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	2F2.5	Cont+Soil	C34	20	—	—	—	0845	1000	Jamille
2	"	" "	C34	20	—	—	—	1776	1000	Theo Begay
3	"	" "	C34	20		—	—	0403	1004	
4	"	" "	C34	20	—	—	—	1776	1350	Theo Begay
				80						

RESULTS			LANDFARM EMPLOYEE	NOTES
4281	CHLORIDE TEST	1	Cory Robinson Gm	
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	CHLORIDE TEST			
PASS	PAINT FILTER TEST	1		

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Generator Onsite Contact _____ Phone _____

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envirotech

BOL# 73000

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 05-20-22 TIME 1000

CUSTOMER HILCORP

SITE SJ 27-5-69

DRIVER [signature]

SAMPLE Soil Straight X With Dirt _____

CHLORIDE TEST 281 mg/Kg

ACCEPTED YES X NO _____

PAINT FILTER TEST Time started 1000 Time completed 1010

PASS YES X NO _____

SAMPLER/ANALYST Cory Robinson

Attach test strip here

5796 US Hwy 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 179472

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 179472
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/24/2023